

ANDROID APPLICATION HAJJ JATTRA

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled “**Android Application Hajj Jatra,**” submitted by Abdul-Mukit-Mondal , ID No: 153-15-6616 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 06 December 2019.

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I hereby declare that this project has been done by us under the supervision of Mr. Shah Md Tanvir Siddiquee, Assistant Professor of **CSE Department**, Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for an award of any degree or diploma.

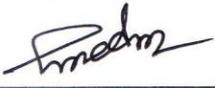
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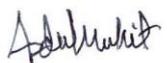
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ABSTRACT

Whenever we were to decide to go to Hajj, then huge problems had to be faced for learning the language. Then we decided that this problem needs to be a solution. That's why we took the initiative to create an App that will provide a camera. Camera to select text and translate any language. This interactive app is free for all people. Which is useful for Hajji people as well as the Arabic bigger learner. Previously used a google site-based system that all the works are done manually. Google's site-based system is time-consuming. The main objective of the use of Apps is easy to learn Arabic. Through our application, people can search for their unknown words using an Android mobile. When the learner will not be able to find any word then he will be able to get some help from this app. You can easily see the word meaning of Arabic pronunciation or other languages. There are many other facilities of this app, such as learn common words and which need to communicate with each other, etc. Then it will be helpful to understand Arabic.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Starting at in reverse, the Web is most natural for all ages. The essential target of us this application gives a few obscure words interpretation Arabi. This application is a program, that racing on a versatile with a web- server on firebase. The Telephone work region applications run absolutely on they are being kept quick on. Versatile is reliable on the application and it gives a characteristic to get to this associate. Hajj Jatra is an Application, Android application based. Our nation individuals can unreservedly say Arabic with this application makes a difference. What's more, it can be without trouble comprehended. You can get a supposition about which administration on earth.

1.2 Motivation

There was a ton of hardship for getting Arabic. We were not looking for the standard of Hajj. I loved an application however didn't have Bangla articulate. We couldn't understand Arabic, so their applications are not working. At that point, I intend to make Arabic to Bangla elocution applications. This thought is supreme and massively will be fundamental for each.

1.3 Objectives

This application is purposed to create to encourages the individuals to hajj exercises of the hajj, This application is created to comprehend and learning Arabic, which incorporates Arabic words articulate, most loved word list, New word includes, and so on. It is schematic to get the resulting purposes:-

- To modernize every one of the amenities, with the subtleties of word or information.
- To make strides a few offices for the client, for example, most loved word list.
- Notify by notice regular learn a single word.

- New updates and highlights will be included on the web.
- Google to include, talk about what you need to decipher.
- History (Arabic) Most current First.
- All clients can be utilized input wants by sending evaluations.

1.4 Expected Outcome

- Those who need to learn the Arabic language will learn Arabic.
- In this application, the Creator has been given access rights.
- The Information is spared electronically, it is critical to have an android Versatile and System association with the first-time approach the Application.
- The basic role is that the individuals of Bangladesh can without issue gain all the law and arrangements of the Hajj.

The referenced undertaking is a Hajj Jatra that takes proportions of various offices of client action. It is an exceptionally basic idea to gain proficiency with the Arabic language and accomplish Hajj's normal word for comprehension. This application-based application guaranteed broad time and power like the client's joy guarantee. Hens this application based task offers an especially viable approval.

1.5 Report Layout

All reports are generally building in three segments:

- Fontal element
- Test
- Back element

The Fontal element structure of the cover sheet, endorsement page, dynamic synopsis, Affirmations, table substance, rundown of tables, rundown of figures, different records and the

Part 1: Prelude and so on. Fontal pages are given a number on one's way from whatever remaining parts of the substance. We have consolidated our report as pursues:

Part 2: Talk about the back state of our task. I additionally counsel about the included work, the expectation and difficulties of the venture and I am balanced such a large number of other competitor frameworks.

Part 3: Resolve the need for the undertaking. I am characterized as the information stream chart, use case graph, and plan prerequisites. I additionally talked about the necessity of a large number and investigation process.

Part 4: Separate the back end and the front end structure of the task.

Part 5: Point out the redaction of the full venture and I am functional each part of the anticipated whether the appeal is filling in as trusted.

Part 6: Talk-over the epilog and the office for therewithal progress of the task. Finally of all the reports, I deliver the associated mention to resuscitating that the instruction in the report is must be flawless.

CHAPTER 2

BACKGROUND

2.1 Introduction

Not little individuals and associations today have another or recharged anxious in the venture the board applications. Previously, hazard organization concentrates around giving a calendar, and product data to a top organization in just a couple of organizations, for instance, the military and improvement endeavors. The ongoing guarantee organization incorporates prominently and singles in each activity and every country deals with dangers. Numerous associations have ready among a troublesome factor in innovation and the usage of interdisciplinary and overall employment gatherings have on a very basic level changed the activity place. In this bit, we attempt to give a total in all parts thought regarding learning Arabic or understanding Hajj Jatra. Here I have performed about learn Arabic.

2.2 Related Works

A few kinds of occasions there are numerous huge Applications sorted out for at our College, including Hajj Jatra, DIU Question Bank, DIU Savvy Understudy, DIU Undertaking Assessment, and so on. Also, the need a prosperous spot for these courses of action. Where there is such a field, there is no framework finding information is effortless?

People groups don't require online for a blare. There is no equivalent for the hypothesis about hajj Jatra, DIU Undertaking Assessment, DIU Question Bank, and so forth. So we are making this Hajj Jatra Application with the goal that people groups can just get results to various results while introducing on the versatile. This kept up by 2 degrees of clients:-

- Admin (Designer)
- User-level (People)

Designer Level:

Administrator is one who has the executing influence of dealing with the web application. The administrator can refresh, read, make, erase the information that is spared. People Clients: learn, see the guidelines and guidelines. This is an application that is easy to understand and effortless to utilize. The molding of this framework is straightforward. It will act in close to all arrangements. Here the most extreme import sunken is "Information". Here the information is arranged and spared totally for quite a while. A few needs are as under:-

- Searching for the essential Arabic word.
- Meaning of Arabic Word.
- Shorten information overabundance.
- Summary
- Minimizes paper act

2.3 Comparative Studies

Hajj Jatra gives a method for individuals to arrange their general word, Bangla articulates and most loved word spared. This framework is supported by a size-to estimate based help, with an accentuation on capacity.

2.4 Scope of the Problem

These days the world situation is early unshipped and needs. The framework needs better correspondence between outsiders abroad, effectively perusing street billboard addresses. Therefore, the people groups, endure any nation of the world. Hajj Jatra is anything but difficult to get familiar with any dialects message in your wand dialects. This sort of Application is valuable for all android gadget frameworks. A different volume is given to look after individuals.

- Approachable: Justifiable to approach, select their kind of word, gather information about different spots.
- Multiple Member: Composite client member.
- Searchable: Easy Quest for Database.

2.5 Challenges

There is a test in every one of the exercises. No work can be effective without the test. Thus, in our undertaking, we likewise confronted a few difficulties. As a matter of first importance, we are attempting to concoct this framework with client motivation asset so we need to finish this framework with a full fill of client's essential and it's trying for us to empower clients and move them. Even though, our applications are congenial clients based, anyway it will be hard to carry out the responsibility for us. This Test pines to rely upon client implode advancements that can improve client execution by discretely observing and changed action in the home. For this situation, my client will have the option to advise me of any issue and can likewise educate me regarding any new assistance. The results of these advancements will empower exceptionally decipher different dialects and thinking and furthermore may prompt diminished time, improved information, upgraded speed of secures information, as well as improved access to learning. It is assistant to aware of the volume of the exercises or obfuscates and I will attempt to discard the tangle.

It requires exceptionally low framework assets and it will act in practically all arrangements. They are:

- Huge of information
- Data accuracy
- Admin board control
- Efficiency of working
- Manual information passage limited
- The time required must be least
- User well disposed
- Effective

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling:

Business procedure demonstrating in process the board is the business and designing is the action of speaking to procedures of big business frameworks, with the goal that the ongoing procedure might be investigated, improved, and robotized. Business procedure demonstrating is ordinarily completed by biz investigators, who deal mastery in the displaying exhortation; by matter occasion specialists, who have specific learning of the procedures being displayed; or all the more by and large by a group including both. The procedure model can be gotten legitimately from the occasion's logs utilizing process This list displays some easy thoughts on Biz Procedure Demonstrating. It will give us an out of a complete thought of Business Procedure Displaying[1].

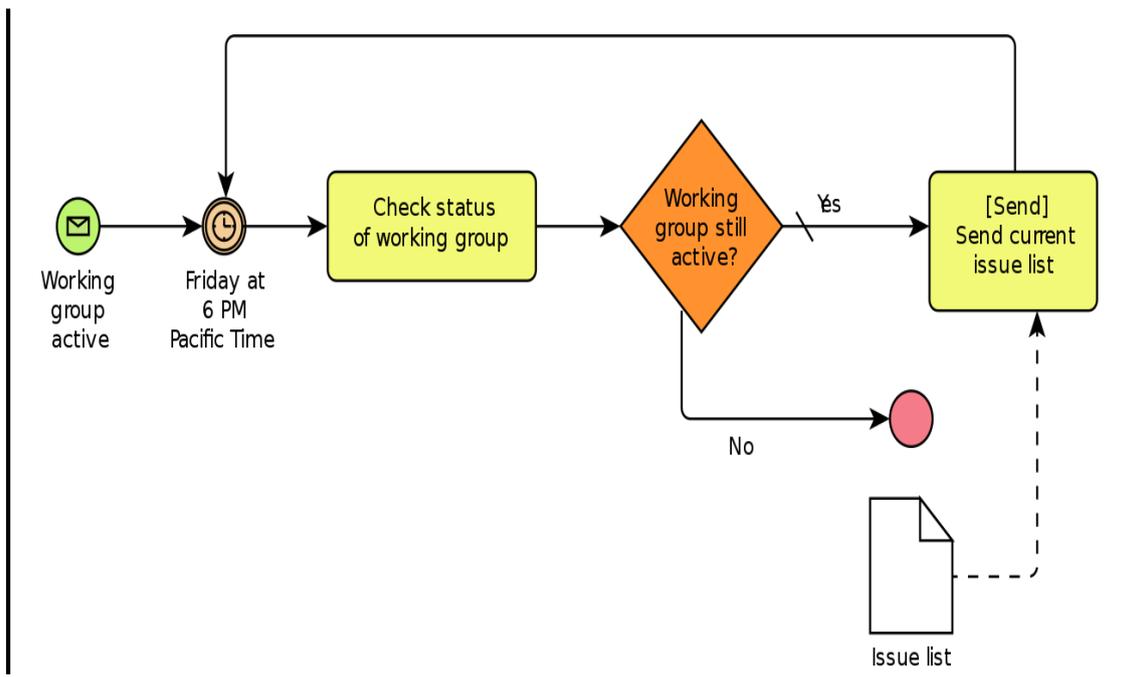


Figure: 3.1.1: Business Process Modeling

Description:

This table shows some facile ideas on Business Process Modeling. It will give us an in a total idea of Business Process Modeling.

Table 2: Business Process Modeling

Rank	Issue	Description
1	Method Prosperity	Larger capability to prosper business method.
2	Perception	Improved and coherent perception.
3	Communication	Improve communication of business method.
4	Redaction Method	Redaction on the basis of the models.

3.2 Use Case Modeling and Description:

They can be user. Here user can have used the overall system [1].



Figure 3.2.2: The full use case model of Hajj Jatra.

3.3 Requirement Collection and Analysis:

This is an application that can be actualized office. It will work in practically all arrangements and it requires low framework assets.

- Equipment setup required:
- Processor: Double center or above.
- HDD: 100 GB or above.
- I/O: Console, Mouse, Screen.
- Memory: 250 GB or above.
- Programming design required:
- DB: Phpmyadmin.
- Tool: android-studio-ide.

- OS: Windows 10 or above.
- Framework: Codeigniter.
- Server: Localhost.
- It likewise guarantees approximate necessities that is needful:
- Data exactness
- Effective
- User cordial
- Time required must be least
- Admin board control
- Efficiency of working
- Manual information passage limited

3.4 Logical Requirements

We study logic translations from an abstract perspective, without any commitment to the structure of sentences and the nature of logical entailment, which also means that we cover both proof- theoretic and model-theoretic entailment. We show how logic translations induce notions of logical expressiveness, consistency strength and sub-logic, leading to an explanation of paradoxes that have been described in the literature. Connectives and quantifiers, although not present in the definition of logic and logic translation, can be recovered by their abstract properties and are preserved and reflected by translations under suitable conditions.

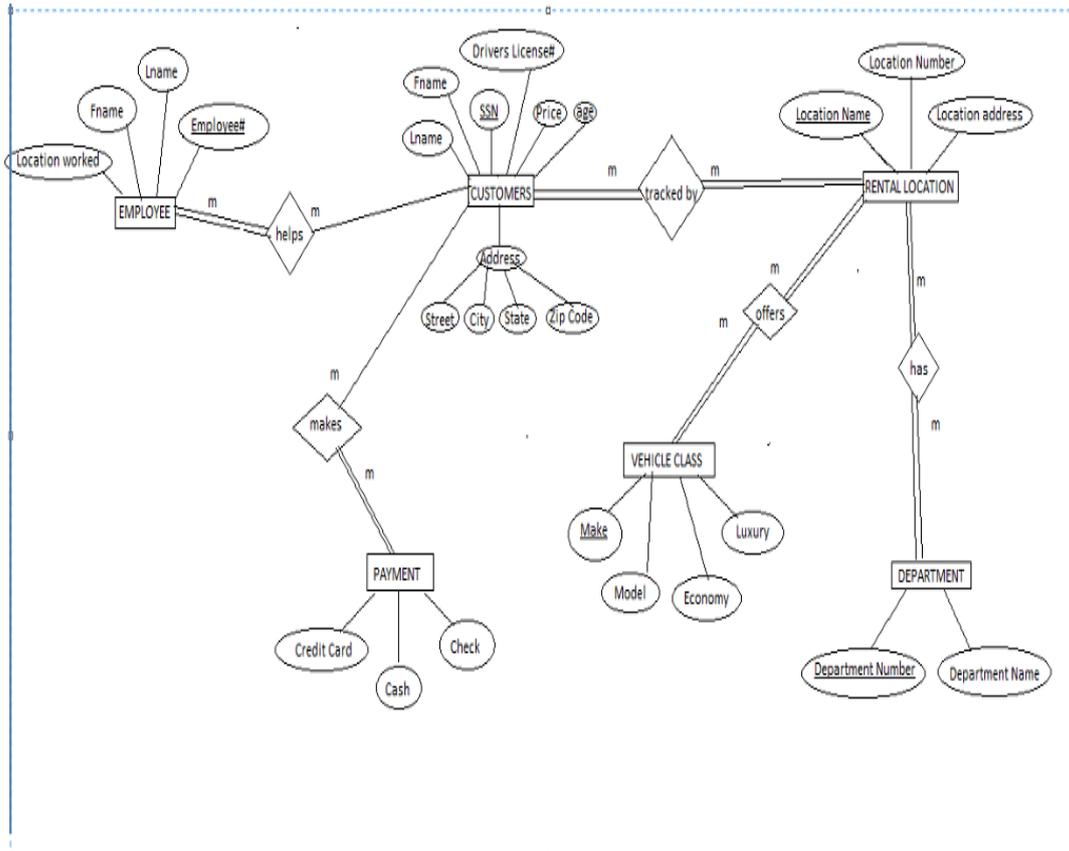


Figure 3.2.2: EM Diagram for Translate

3.5 Design Requirements

- Database API
- Languages API
- Text API
- Admin Panel

3.5.1 Features:

In the raised framework I have a few components here. These are some primary elements.

- Home.
- Rules and Guideline.
- Regular clients of interpret 88 dialects.
- Camera.
- Neural machine interpretation.
- Share. Search
- framework.

CHAPTER 4

DESIGN SPECIFICATION

In this segment, I demonstrate the plan of our framework. This framework executes every one of the apparatuses and innovation, here I was express. We have demonstrated how we have tried our framework in the wake of building it in a portrayal.

4.1 Front-end Design

As normal front-end or UI worked in the introduction layer. It pictorial to the client it is just the best approach to collaborate with our framework. Front-end or UI configuration additionally assumes a basic job in the client experience of the client. The principle goal of planning a site or application is the way the client effectively contacts the UI for their vital choice. For instance, from the stack flood application or Wikipedia which hops to route, search, show the default important alternative that a large portion of the client required. UI improvement or Front-end is otherwise called customer side or client site advancement is the propensity for origin inability and tradition XML. The engineers or fashioners make primary parts and highlights that are in a roundabout way spellbound by a client through a front-end application or framework.

For front-end or UI structure what I required:

- Require XML format structuring as Linear design, Similar design, Facilitator design, Requirement format and so forth.
- Need information about google material structure
- Need information on custom format plan
- Need a decent XML see manager
- Need information of HTML, CSS at an or more point

4.1.1 XML

XML is a markup language like HTML. This implies, in contrast to other markup dialects, XML isn't predefined, so you should characterize your labels. It represents

Tensile Markup Language and is a conscious reserved as a broadly useful markup language. The essential goal of the language is the sharing of information crosswise over various frameworks, for example, the Web. There are numerous dialects dependent on XML. A few models are XHTML, XUL, and XBL. You can likewise make your own. XML labels are not predefined in XML. We should characterize our Labels. XML as itself is well intelligible both by people and machines. Likewise, it is adaptable and easy to create. In Android, we use XML for planning our designs because XML is lightweight language, so it doesn't make our format overwhelming[2].

4.1.2 XML Layout

The entire idea of the Android UI is characterized utilizing the chain of importance of View and View Gathering objects. A View Gathering is an undetectable holder that arranges youngsters sees. These youngster perspectives are different gadgets that are utilized to make various pieces of UI. One View Group can have another View Group as a child element as shown in the figure given below[3]:

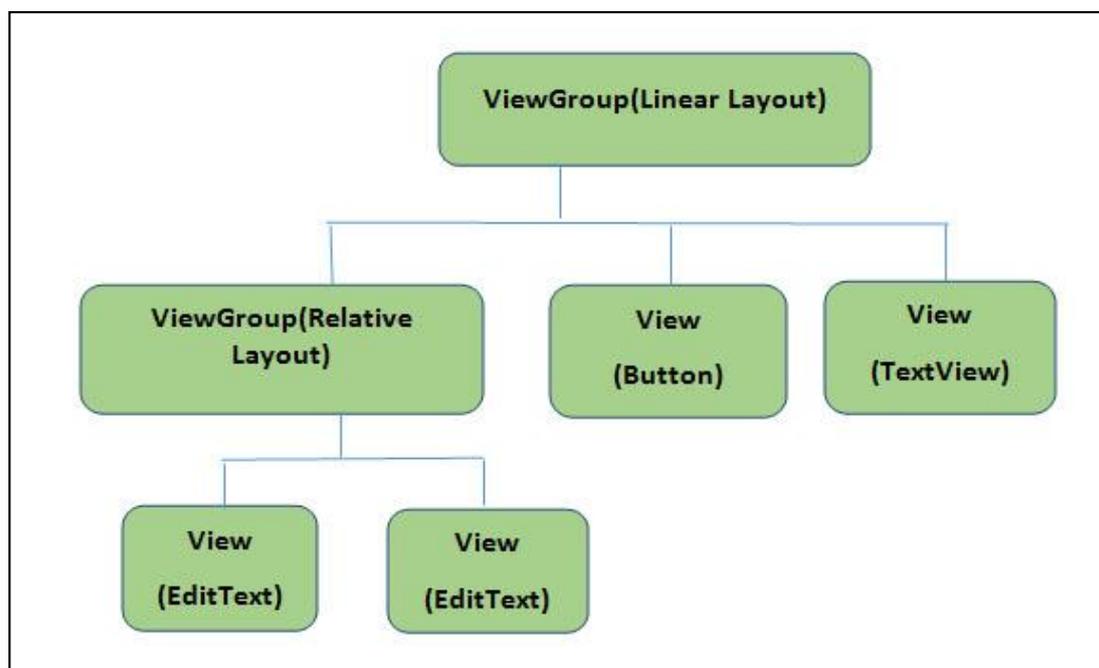


Figure 4.1: Android UI Layout

4.1.3 HTML

Hypertext Markup Language (HTML) is the standard markup language. HTML components are the structure squares of HTML pages. HTML gives a way to make

constructed records by meaning auxiliary semantics for satisfied, for example, headings, passages, records, connections, cites and between things. With HTML develops, pictures and among items, for example, intuitive formation might be implanted into the performed page. HTML components are portrayed by labels, composed utilizing point sections. There are commonly have we utilized Html, from Html while attempting to show markup like interface on Android? If you take a gander at the source code of HTML class, you'll comprehend that the labels are disintegrated into ranges which are then determined onto the Content View[4].

4.1.4 CSS

CSS Represents \"Cascading Template. Falling Template is used to structure the configuration of Site pages. They can be used to describe substance styles, table sizes, and various pieces of Pages that effectively should be portrayed in a page's HTML. The basic purpose behind CSS is to set apart the elements of a web file (written in any markup vernacular) from its presentation (that is made using Falling Formats). There are lots of points of interest that one can isolate through CSS like upgraded substance accessibility, better versatility and moreover, CSS gives a degree of power over various presentation traits of the file. It is like manner helps in limiting the entanglement and associates in saving presentation time. CSS gives the option of picking diverse style plans and rules according to the necessities and it moreover assents a comparable HTML report to be indicated more than one moving style[5].

4.2 Back-end Design

As a rule, the back-end is the device that runs a space the customer doesn't see it or explicitly partner with it comparatively similarly as with client-side development, yet it's persistently coming up short immediately. Pass on smooth convenience and information from the database into the program. The establishment is the mix of database and an item writer in a server-place lingo, which continues racing on web servers, cloud servers. In any case, in android application improvement the things are not a similar untouched. There are two sorts of back-end administration for android application improvement which are disconnected stockpiling or back-end framework and online back-end framework. What's more, we build up this backend framework utilizing Java or Kotlin language and Shudder or Respond Local structure with the Android system. What's more, presently Kotlin's official language of android base

application advancement is presenting by google. However, a large portion of the designer inclines toward Java over Kotlin until now due to the absence of assets of Kotlin for android application improvement.

4.2.1 Java

Java is an item arranged programming language created by Sun Microsystems, that is presently possessed by Prophet. stating such an ancient language, Java does a mess something other than creating Android applications. In this way, on the off chance that you know your Java, you have many more openings for work. You might not have any desire to grow just Android applications constantly. Java gives you a chance to spread your wings more extensive. However, on the off chance that it's particularly about Android application improvement that you need to discuss [6].

4.2.2 Kotlin

Kotlin appear when Android advancement required an increasingly present-day language to include the characteristics of Java and help in portable improvement. JetBrains, the individuals who made IntelliJ, the incorporated improvement condition likewise made Kotlin. It is an open-source, fixed composed language dependent on Java Virtual Machine (JVM). The bit of leeway with Kotlin is that you can assemble it to JavaScript and interoperate with Java. This enables engineers to not just effectively update ancient Java applications to Kotlin, yet also, carry on their ancient job in Java to Kotlin [6].

4.2.3 Shudder

Shudder is a versatile application SDK that enables you to compose an application in one code-base and aggregate it to both Android and iOS. Fire-base is a versatile improvement stage that gives a back end to help your applications, and Cloud firestore is a NoSQL record database where you can save, synchronize and question information for your portable applications. Both, this trio of Google arrangements can take out a significant number of the more monotonous parts of versatile advancement, helping you take your applications from idea to organization at the fast speed [7].

4.2.4 Respond Local

Respond Local is a JavaScript structure for writing real, general translation many-sided applications for iOS and Android. It depends on Respond, FB's JavaScript library for building UIs, whatever as opposed to lighting on the program, this targets connected stages. As such: web designers would now be able to compose versatile applications this view and realize really "local," all from the solace of a JavaScript library this I learn and like. Besides, because the greater part of the code you compose can be shared among stages, Respond Local makes it simple to all the while produce for both Android and iOS[8].

4.3 Communication Plan and UX

For guaranteeing better Client experience, on 25 June 2014 google report a new structuring example for android application creating who is called Materials plan. From materials structure, anyone can discover that what ought to improve UX. Material plan obligation to show and practice usage to how a client can collaboration with this structure or UI.

4.4 Objectives:

- Know what a front-end or UI structures and how it profits to be important.
- See how to truly consolidate CSS, HTML, XML and start squeezing.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

The use stage is the spot you show the DBMS on the essential fixing, update the database to run best on that fixing and programming stage, and make the database and burden the data. Make the database and tables. Burden the data. The database utilization steps are: -

- SDLC – Deft Model
- Database Life Cycle.
- Requisite gathering.
- Analysis and investigation.
- Logical Plan.
- Implementation.
- Perceiving the plan.

5.2 Implementation of Front-end Design

Application of front-end encapsulation called client-side progress is the demonstration of making XML and some HTM-CSS for an android application, so a customer can see and associate with this explicitly. A large portion of the cases, we utilized XML for front-end or UI plan on account of As opposed to coordinating them into the HTML report. They are put away in independent XML records. Since XML stores information in plain content organization, the capacity is free of your foundation and your information can be sent out, imported, or just moved a lot simpler. Also, we utilized different sorts of XML formats in our undertaking like Liner design, Relative design, Organizer design, Imperative design and so on. Since there are such huge numbers of sizes of gadgets present in the overall market. On the off chance that we utilized only one XML format for the structuring of an entire application then it will be hard to oversee various sorts and sizes of screen. That is the reason we utilize

different sort of XML designs. Also, through the XML design, the client can collaborate with the application legitimately. The objective of establishing an application configuration is to guarantee that when the customers or clients open the application they see the information in an association or something different that is not simple to examine and satisfactory.

5.3 Implementation of interactions:

It is very much reported that the module of coordinated effort configuration is an imperative piece of client experience (UX) plan, situating on the correspondence among clients and items. The objective of correspondence configuration is to deliver an item that yields an efficient and diverting end-client practice by enabling clients to achieve their motivations in the most ideal manner potential.

5.4 Testing Implementation

Usage is the plan concerning setting a movement for the schematic arrangement. Before we realize, the arrangement commitment to have been done and our goals commitment all things considered. Testing all of those exercises determined in the arrangement. The test substance is also used to outline the headings to a test redaction gadget. A computerization substance is made in a programming figure of speech that the mechanical assembly can get it. The tests that are relied upon to be run physically rather than using a test execution device can be called as manual test content. The test techniques, or test substance, are then surrounded into a test execution plan that shows which methodologies are to be run first – a kind of superscript. Making the test Framework is another opportunity to sort out the tests, to ensure that the best testing is done in the time open.

5.4.1 Framework and Libraries

We should be possible creating an android application utilizing a lot of systems like the Android authority part with Kotlin or Java, Respond local structure, Ripple system and so forth. Be that as it may, google prescribed to utilize the android official structure with Kotlin or Java since ripple and respond local is certainly not a local way to deal with creating an android application. What's more, to create an android application utilizing respond local or vacillate isn't steady than the local methodology.

What's more, when we are creating application then we need some significant and must required libraries:

Retrofit:

Retrofit is an exceptionally valuable system calling the library. At whatever point we have to send information to the server or to bring any information from the server when to approach the server-side, we should confront numerous issues with our survey, shocks, etc. What's more, we use retrofit's Libraries to take care of these issues effectively.

Recycler View:

Rundown see, which we, as a rule, make in the design of various formats, make sees. To show the rundown first, we utilize the rundown see. In any case, there is some constraint that is on the off chance that your rundown view is so long or perplexing, at that point, it will wrinkle some client experience issue. Along these lines, if you have to show a great deal of information in a rundown, at that point utilizing Recycler view will work quite well. Therefore we need the Recycler to see the library.

Coast:

The coast is a picture stacking library. We should stack enormous and various sorts of pictures presently. What's more, the majority of the mobiles have every one of the assets is significantly less, so there are numerous issues to load pictures of numerous huge or various sorts physically. Thus, we utilize the Float library to tackle this.

5.4.2 Database Server and Organization Apparatuses AWS Portable:

Presently a day we need more stockpiling to deal with our information. For this, amazon web administration portable is an extraordinary stage to store your information. A ton of festivities including Warning, Verification, Distributed storage, information warehousing, Gadget Homestead and so on. SDK for a great deal of stage including iOS, Android, Xamarin, Respond Local, Solidarity. It is a free intend in the first place.

Firestore:

Firestore additionally incredible information stockpiling server. Furthermore, it is prescribed by google for android application improvement. A ton of highlights handles naturally by firestore SDK that is the reason android designers truly love it. A lot of festivities including Realtime Database, Crash Reporting, Verification, Distributed storage, Facilitating, Test Lab for Android. What's more, it is additionally a free intend regardless.

Back4App:

It is declared a cloud facilitated parse server. A lot of festivities including Live Question Ongoing Database, Examination Dashboard, Rendition Control, Order Line apparatus, Multi-Application Tenure, Groups, and Joint effort. It is likewise a free intend in any case.

MySQL:

Rather than utilizing AWS, Firestore, Back4App as a database server, you can utilize your facilitating database like MySQL. MySQL is an open-source database for the board framework. Also, to your MySQL database as your server for your application, you need to make a Rest Programming interface to speak with MySQL database into your application. What's more, we utilize this for our application since it is a free and open-source database administration framework.

5.5 Test outcomes and Reports

The test report is required to reflect testing results officially, which allows assessing testing results quickly. It is a report that records data got from an appraisal investigate in a dealt with way, portrays the normal or working conditions, and exhibits the assessment of test results with goals. Along these lines, close to the end, we can do the results as the benefits of convenience testing to the end once we have portrayed the general building for association dissents, the issue is then how to design the game plan of its events to make them open to fashioners of UIs. The correspondence can locate everywhere. Affiliation is the best approach to make a structured dynamic and appealing to a customer. It's extraordinarily essential to make a structure natural and

we similarly endeavor to. As alluded to in previously, we also join somebody of a sort of part to team up our system.

I have arranged our structure as straightforward that customers can satisfy to visit our site. I am demonstrating a strong degree of close by organizing consideration in our orchestrating, and use.

5.5.1 Home page and offline app

Figure 5.1 shown the home page of Hajj Jatra containing with basic image text in Camera and processes. And figure 5.2 also shown the app translate option for that user can easily change and select the app languages option.



Figure5.1: Home page

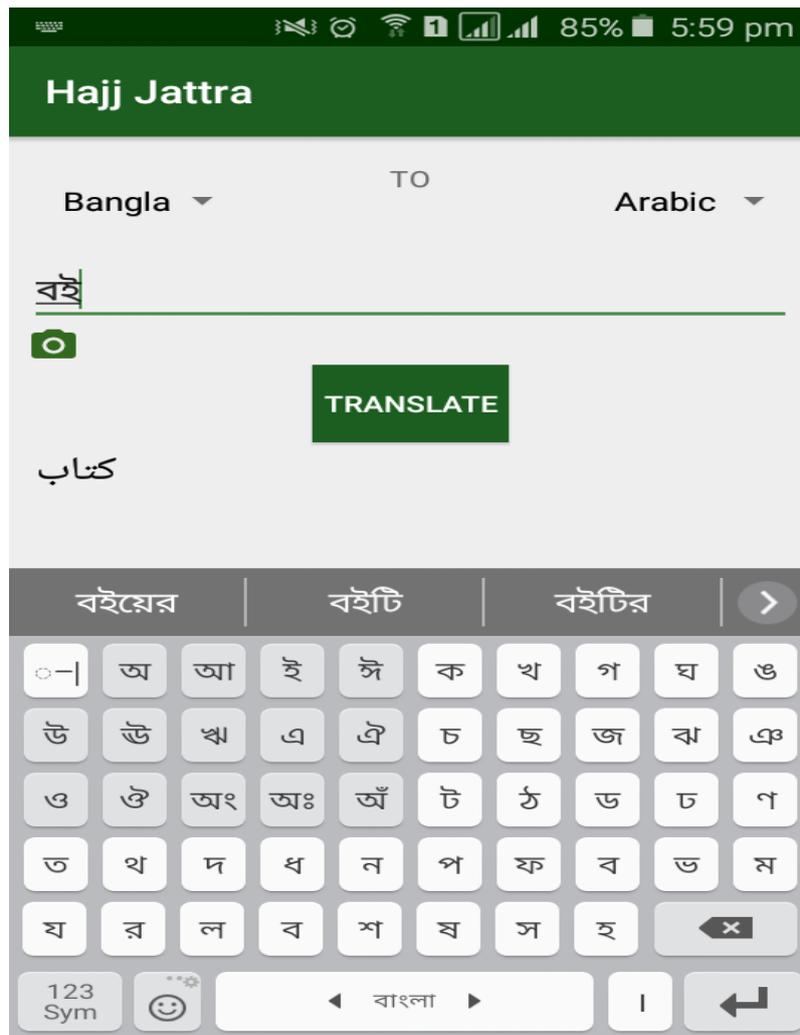


Figure 5.2: App languages Option

5.5.2 Rules and regulations with offline

Figure 5.3 exposed the details information of translator rules and regulations. And figure 5.4 also exposed the offline option for the user that user can translates and for the must have installed Gmail into the user mobile.



Figure 5.3: Rules and regulations



Figure 5.4: Offline Translate

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Finally, our activity has been satisfied. It was the success of time to make a sentence to interpret. We need to make effectively. This is specifically made for. The difficult some segment of this was to make an easy to utilize Programming interface that ranges the work for the disconnected. It is additionally powerless of giving simple and valuable tankage data that incorporates interpreters, swap dialects both outrageous effectively.

6.2 Future work and Further Development:

We have a plan for adding more offices to this framework. This framework has a lot of future degrees to make it more clients' benevolent. Bringing we will make an online application arranged in it. Presently, this framework is working for just interprets. In future improvement, our framework will be work to Most loved the word, History, Numerous decision question one language to another dialect, Setting, Rate, Oftentimes posed inquiries, share and so forth refreshing next activity.

APPENDIX

Appendices A

Projection Reflection: From the Spring-2018 semester we begin our journey for make Hajj Jattrra translator for the public, We followed the project for improvement to redact and monitor our invention, and were able to reach our aim.

Appendices B

Abbreviations and Acronyms

- XML: Extensible Makeup Language
- XHTML: Extensive Hypertext Markup Language
- XUL: XML User Interface Language

- XBL: Xml Binding Language
- HTML: Hypertext Markup Language
- CSS: Cascading Style Sheets.
- PHP: Hypertext Preprocessor
- UX: User Experience
- UI: User Interface
- NoSQL: Not only SQL
- Rest: Representational State Transfer
- API: Application Programming Interface.
- SDK: Software Development kit
- iOS: iPhone Operating System
- SDLC: The System Development Life Cycle
- DBMS: Database Management System

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