

**SMART NOORANI QURAN SHIKKHA: A MOBILE APPLICATION TO
HELP LEARNING QURAN**

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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/internship titled “**Smart Noorani Quran Shikkha: A Mobile Application To Help Learning Quran**”, submitted by Mst. Rabeya Najnin, ID No:161-15-7106 and Khadijatul Kobra, ID No:161-15-7378 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 B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 7 December 2019.

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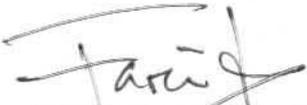


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We hereby declare that, this project has been done by us under the supervision of **AHMED AL MAROUF, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

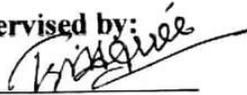
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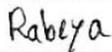
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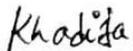
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ABSTRACT

This project is learning Quran properly with grammar and pronunciation application. It is an android based project where any ages people learning Quran easily with proper Arabic grammar with pronunciation. The Holy book of Muslim is The Quran. There are many people are not able to learning Quran properly. They haven't enough time for going to teacher for learning Quran. For this reason we have built an android application that helps those type of people. We try to make more easily this application for learning Quran. Users can learn Quran easily by staying at home using our application. User can access easily, can read and heard sound properly, can learn Quran anywhere any time.

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CHAPTER 1

Introduction

1.1 Introduction

Smart Noorani Quran Shikkha is the process of learning Quran easily through an android application. The Holy Quran is a divine book and the word of Allah. Quran includes every aspects of life which a person needs to know about .The best of all education in this world is the Quran and acquiring it is mandatory for every Muslim. Being a Muslim it is our belief that the learning of the Holy Quran is the solution to all problems and issues of our life. The use of digital technology has grown rapidly during the last couple of years. But learning Quran has no updated digital technology. We have no enough time to learn Quran from a teacher. But it is very important to learn the Holy Quran from a teacher who proficient knowledge of Quran with Tajweed so that he/she gets better in understanding the Quran. We haven't enough time to go to teacher for learning the Quran. The goal of our app is solving this problem and learn Quran easily for every age people.

1.2 Motivation

Holy Quran is a source of guidance to every human being and only that person can take benefit from it that has clear understanding of it .It will be very helpful to them who learn and read Quran properly. On the other hand, most of the people of our country who do not enough time to learn Quran to go to teacher for study purposes, face many problems. The reason for choosing this project is to solve the problem of time shortness for learning and teaching the Quran. Main important thing is to learn the Holy Quran from a teacher who has proficient knowledge of Quran so that he/she gets better in understanding the Quran but it is not possible for them because of time shortness. Our system can be the best choice for them. They can learn Quran easily by staying at home.

1.3 Objective

Generally we, who are new or wish to learn the Quran for the first time or could learn previously and now can't recite fluently for lack of practice or has forgot to recite, though we are eager to learn the Quran but we haven't enough time to go to teacher for learning the Quran. So to get rid of this problem and learning the Quran easily this app will be helpful.

1.4 Expected Outcome

The main motto of this project is to give the easiest opportunity to the people of our country, whose life is bound behind the walls of their home, busy person who are not enough time to learn Quran but they want to learn Quran and for the people who are suffering a lot to find their teacher who has proficient knowledge of Quran and want to recite Quran fluently. It is an android based project where anyone can learning the Quran easily.

The users can obtain the following things:

- Can access easily.
- Can read and heard sound properly.
- Can learn Quran anywhere any time.
- Can solve the problem of time shortness to go to learn Quran.
- Can learn any age of people who can't recite fluently for lack of practice.

1.5 Report Layout

Chapter 1: Introduction

In this chapter we have discussed about the motivation, objectives and the expected outcome of the project. Later Followed by the report layout.

Chapter 2: Background

We discuss about the background circumstances of our project. We also talk about the related work, comparison to other candidate system, the scope of the problem and challenges of the project.

Chapter 3: Requirement Specification

This chapter is all about the requirements like business process modeling, the requirement collection and analysis, the use case model of the project and their description, the logical relational database model and the design requirements.

Chapter 4: Design Specification

In this chapter all the design of the project. Front-end design, back-end design, interaction design and UX and the implementation requirements.

Chapter 5: Implementation and Testing

This chapter contains the implementation of database, front-end design, interactions and the test results of project.

Chapter 6: Conclusion and Future Scope We discussed about the conclusion and the scope for further developments which petty much derive about the project.

CHAPTER 2

Background

2.1 Introduction

Quran the best book in the World. We should value this Al Quran. Nowadays we can see that people are using various intermediary or third party apps or websites to learn Quran. But it is very important that makhraj should be the first step for learning Quran and without proper pronunciation meaning of Arabic words can be changed. Hence learn makhraj is an essence. Learning makhraj is very important part of Arabic literature. So always careful to learn Quran using apps. Our app can be used to teach any age people in learning Arabic language as well as learning Quran. All lessons in this app are in Bengali and targeted for Bangladesh, West Bengal and Native Bengali speaker Muslim all over the world. So our team work for people Arabic education which is easy and entertaining also.

2.2 Related Work

In Our country a lot of Quran app is going on. But most of the apps provide as usual normal rules and have not proper system to learn Quran easily. During working with our own project, we also analyzed some related both old and new apps such as Learn Bangla Quran in 27 Hours[1], Sohi Nurani Quran Sikkha[2] and Sohi Quran Sikkha[3].

2.2.1: Learn Bangla Quran in 27 Hours

Learn Bangla Quran in 27 Hours [1] provides the rules, normal techniques to learn, specific pronunciations can be learned. In figure 2.1 we can see Learn Bangla Quran in 27 Hours app activity.



Figure- 2.1 Learn Bangla Quran in 27 Hours [1]

2.2.2: Sohi Nurani Quran Sikkha

Sohi Nurani Quran Sikkha [2] provides all kind Arabic word, some rules of learning. In figure 2.2 we can see Sohi Nurani Quran Sikkha app activity.



Figure 2.2 Sohi Nurani Quran Sikkha [2]

2.2.3: Sohi Quran Sikkha

Sohi Quran Sikkha [3] provides all kind Arabic alfhabet, Rules of learning. In figure 2.3 we can see Sohi Quran Sikkha app activity.



Figure 2.3 Sohi Quran Sikkha [3]

2.3 Comparative Studies

Currently used apps are helpful for people. We have studied some applications regarding the concept of learning Quran. Most of the apps do not provide the rules to learn easily and the techniques to subjugate easily. The Learn Bangla Quran 27 Hours provides the rules but does not provide the techniques to subjugate easily. Fonts can be identified, specific pronunciation can be learned but it is not possible to learn how to recite easily. The Sohi Nurani Quran Sikkha provides all kind Arabic word, some rules of learning that are necessary but it is not sufficient to learn Quran genuinely. Sohi Quran Sikkha provides all kind Arabic alfhabet, Rules of learning but there is no sound. This app provides some Arabic grammatical rules that is not sufficient. Our app will provide sufficient rules to learn Quran. Also it will provide necessary examples, pronunciation with spellings etc. So this will be really helpful to learn Quran properly.

We have made a developed and user friendly app which may mark some effective solutions to the problems with the previous apps.

2.4 Scope of the Problem

In our application project have some feature. For this feature our project is better than other similar project. Our project application feature is given below.

1. Easy way to learn.
2. Discussion about Arabic alphabet.
3. Discussion about Arabic grammatical rules.
4. Added sound with every Arabic words.
5. Added spell with rules in every Arabic words.
6. User manual is as easy as they run.

2.5 Challenges

In this world or reality, no work is done in an easy way without facing any challenge or obstacle. Our project is not an exception from that. During accomplishing our project, we faced following challenges:

1. There was problem while developing as we are new in this kind of platform. We implemented the best possible error free method and still we are trying to do some finer tuning.
2. Making a user friendly interface took quite long time to design.
3. We have also some common challenges. That common challenges are to finish our work in deadline, fixed bug, application performance etc.
4. It was tough to collect and record sound of Arabic words, we faced problems. Data scarcity, availability of pure data always kept us in tension.

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling

Business process modeling is a technique to represent the workflow of a system. The management of action system of application is called Business process model and short term of Business process model is BPM. figure 3.1 shows the business process modeling of our project.

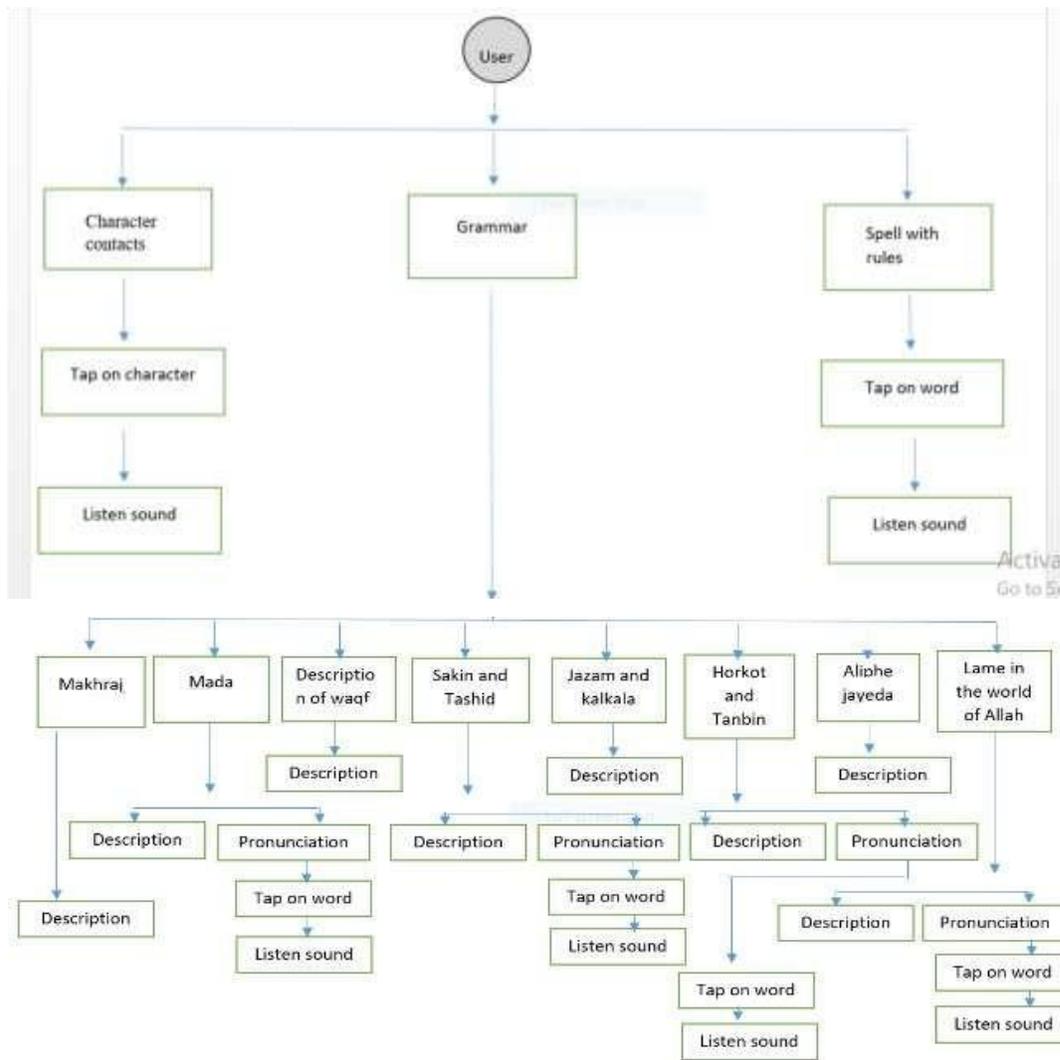


Figure 3.1: Business Process Model.

3.2 Requirement Collection and Analysis

One of the primary conditions of application development is requirement collection and analysis. For deployment, there are two types of requirements: one is the functional requirement and the other is nonfunctional requirement. User have to start without any login or sing up then user show character contacts, grammar, spell with rules. When click character contacts then show all characters and tap on character to listen sound. In grammar when user click then show all grammatical rules Makhraj, Madd, Description of waqf, Sakin and Tashid, Jazam and Kalkala, Horkot and Tanbin, Aliphe Jayeda, Name In The Word Of Allah. In Madd, Sakin and Tashid, Horkot and Tanbin, Name in the Word of Allah have sound with pronunciation. To listen sound user tap on the words.

3.3 Use case Diagram and Description

A use case has these characteristics:

1. Use to organize functional requirements.
2. Modelling the goals of the system/actor interactions.
3. Record path from trigger event to goals.

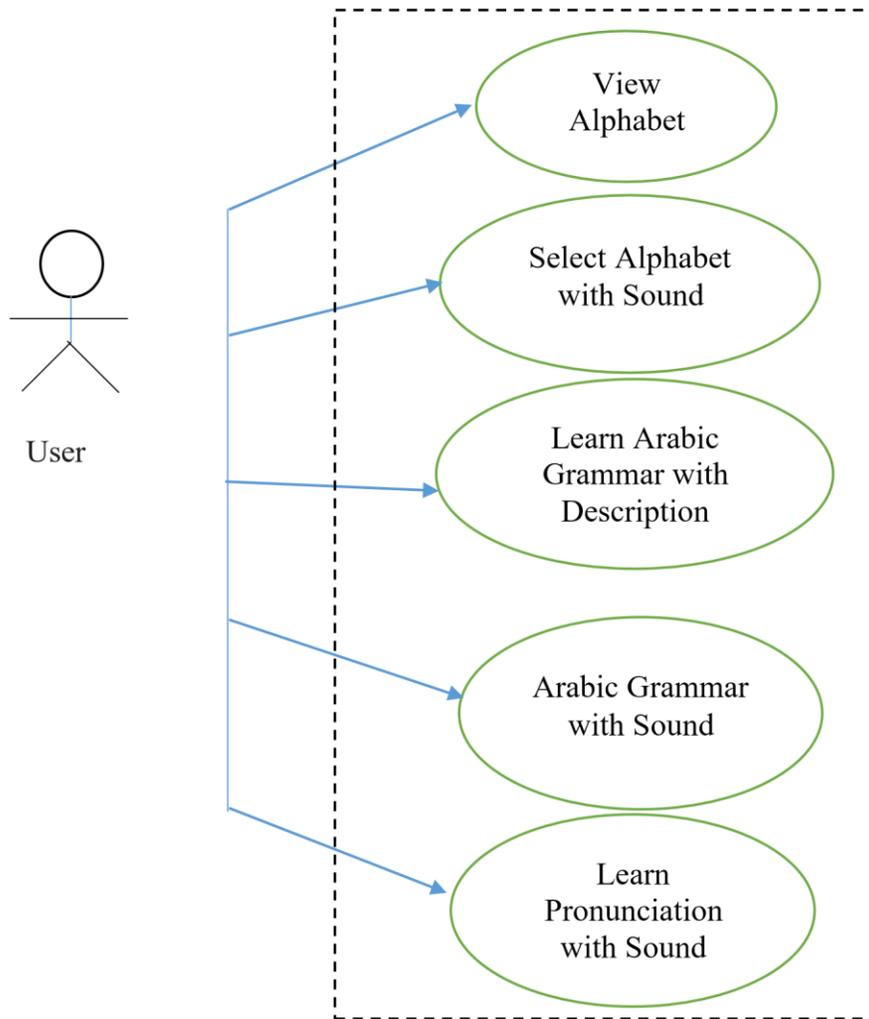


Figure- 3.2: Use Case Diagram

3.4 Logical data model

Logical data model of our project has been shown table given below:

Table 3.4.1: Logical Data Model for Start

Use case	Start
Primary Actor	User
Secondary Actor	N/A
Actor's Goal	Learn Quran easily
Pre-condition	Run the application
Post-condition	Tap on word and listen sound

Table 3.4.2: Logical Data Model for Select Alphabet with Sound

Use case	Select Alphabet with Sound
Primary Actor	User
Secondary Actor	N/A
Actor's Goal	Learn Alphabet with Sound
Pre-condition	Tap on Alphabet
Post-condition	Tap on Alphabet and listen sound

Table 3.4.3: Logical Data Model for Learn Pronunciation with Sound

Use case	Learn Pronunciation with Sound
Primary Actor	User
Secondary Actor	N/A
Actor's Goal	Learn word with Sound
Pre-condition	Tap on word
Post-condition	Tap on word and listen sound

3.5 Design Requirements

The most important part of an application which makes an application unique from any other existing application is design requirements. In our application we mainly focused on better user experience and user friendly. We working on our own specific problem statement, system or user experience which we are designing. We also provide some new features by which the user can easily operate our system.

Use case	Learn Quran easily
Primary Actor	User
Secondary Actor	N/A
Actor's Goal	Learn Arabic Grammar with Description and sound
Pre-condition	Tap on word and listen sound
Post-condition	N/A

Chapter 4

DESIGN SPECIFICATION

4.1 Front-End For Android Application:

The front end design is the evident part of an application. Front –end design attract any users. By which the user interlude. Front-end design is the most essential segments for an application. It acts the introduction layer and user can directly communicate with this. It is very important to build up a straightforward and understandable front-end design for the user of an application. We try to our best to keep our application easy and simple front-end design. The user can easily access the app.

XML: Extensible Markup Language

XML means extensible markup language. By using XML application user can see outside view.XML is textual data format. In our application we use XML. XML is very simple, user friendly. We are using XML in our application for buttons, layouts, recycler views, web views, text views.

4.2 Back-End-Design

The Back-end design is the part which working behind of the applications. It would not be visible for users. It is the most important things of an applications. For our applications we using java for back-end design.

Java

Our application we use java for back-end design. Java is a high level object oriented language. This language have five principles. Firstly, java is a very simple language. Secondly, it is more secured language. Thirdly, it portable language. Fourthly, it's executions performance is very high. Fifthly, it is dynamic executive.

4.3 Interaction Design and UX

Interaction design is very important for our mobile application.

In our application it uses meaningfully. It creates interaction between users and application. It is the best way for communication. UX mainly work for creating shape of the user application.

4.4 Implementation Requirements

In our applications we use many kind of attributes. That kind of tools help for creating our application without any types of problems. By using this we could avoid all types of problem.

In our application we use all attributes very successfully.

4.4.1 Android Studio

Google is developed android studio. By using this software we can design front-end and backend of this application. There are many feature of android studio. Gradle, refactoring, lint, proguard etc are this software's features. Gradle is used for building support. Refactoring is used for quick fix. Lint feature is used for application performance. Proguard is used for integration in applications.

4.4.1.1 Basic Android Overview

Android is very big platform for mobile device. Google take step for android studio. Android studio is connected between front-end and back-end design. As android studio is an open source field. Developers use it very easily. Android studio has some limitations but it has no alternative way for developers.

4.4.1.2 The Emulator

Emulator is a device that is virtual. By using this device emulate or run any applications. It is good opportunity of android and it is optional. This system is additional feature. Emulators have some limitation. Copyright problem is it's limitation. Many high graphics game is run in emulator.

4.4.1.3 Android SDK

Every application has software development kits. It can help developers in many ways like developments tools etc. Sometimes SDK is not safe for data privacy. It is not safe that's why malicious SDK violet application data. Minimum SDK version is 17 to run. SDK is very essential tools.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

This Database Management system on the required hardware, optimize the database to run best on the hardware and software platform and create the database and load the data from a DBMS the initial data or new data captured or existing data improved. Developer established database security and give the various users that the developer has identified access to their requirements.

5.2 Implementation of Front-End Design

How many user will use a system, is completely depend on the easy design and usability of the system. When a user opens our application, they will firstly see the front end design. Android device size is varying from one device to another device. Some device is equipped with heavy hardware, some has large screen, and some are too small. Also android regularly release updated version of their OS. For this we have to make our design device independent and it is very challenging. So, we try our best to keep our design gorgeous also user friendly. We use very simple UI design, for this if any user open any feature of our app, by simply looking on the icon, they will understand what this feature do.

Figure 5.1 a screenshot is a start activity, this activity has four options Character Introduction, Grammar, Spell With Rules, Surah. To learn four options just touch buttons. As a example, If anyone want to know Character Introduction then touch the button.



Figure 5.1: Screenshot of Start Activity.

In figure 5.2 a screenshot is inside the character introduction activity. The activity have 29 Arabic Character with sound. To know any character just touch on top of the character.



Figure 5.2: Screenshot of Character Introduction activity.

In figure 5.3 a screenshot is inside the grammar activity. The activity has 8 different types of button Makhraj, Madd, Description Of Waqf, Sakin And Tashid, Jazam And Kalkala, Harkat And Tanabin, Aliphe Jayeda, The Description Of The Lam In The Word Of Allah.



Figure 5.3: Screenshot of Grammar activity.

In figure 5.4 a screenshot is inside the Makhraj activity. In this activity user can learn about makhraj.

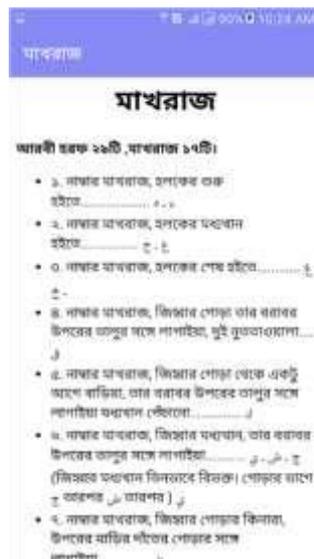


Figure 5.4: Screenshot of Makhraj activity.

In figure 5.5 a screenshot is inside the Madd activity. In this activity user can learn about Madd. This activity has two pages one is description of Madd and another is pronunciation.

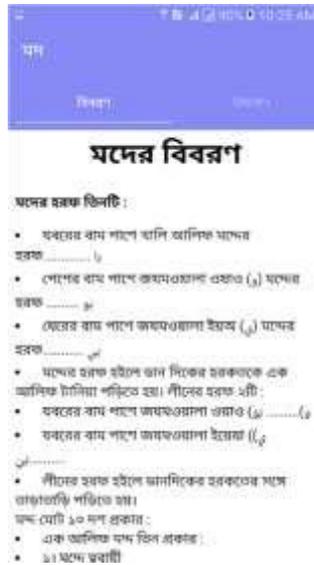


Figure 5.5: Screenshot of Madd activity.

In figure 5.6 a screenshot is inside the Description Of Waqf activity. In this activity user can learn about Description Of Waqf.

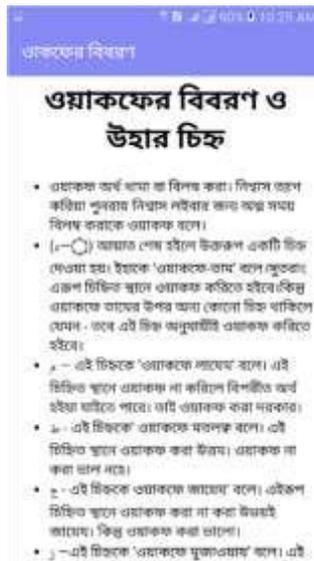


Figure 5.6: Screenshot of Description Of Waqf activity.

In figure 5.7 a screenshot is inside the Sakin And Tashid activity. In this activity user can learn about Sakin And Tashid. This activity has two pages one is description of Sakin And Tashid and another is pronunciation.

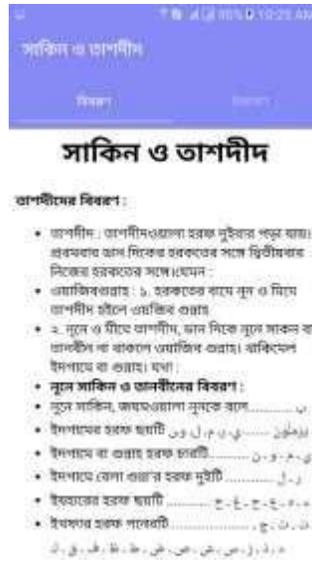


Figure 5.7: Screenshot of Sakin And Tashid activity.

In figure 5.8 a screenshot is inside the Jazam And Kalkala activity. In this activity user can learn about Jazam And Kalkala.

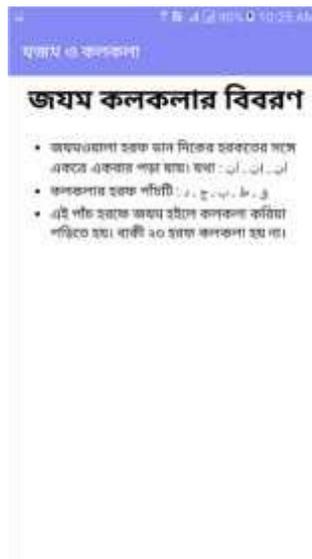


Figure 5.8: Screenshot of Jazam And Kalkala activity.

In figure 5.9 a screenshot is inside the Harkat And Tanabin activity. In this activity user can learn about Harkat And Tanabin. This activity has two pages one is description of Harkat And Tanabin and another is pronunciation.



Figure 5.9: Screenshot of Harkat And Tanabin activity.

In figure 5.10 a screenshot is inside the Aliphe Jayeda activity. In this activity user can learn about Aliphe Jayeda.

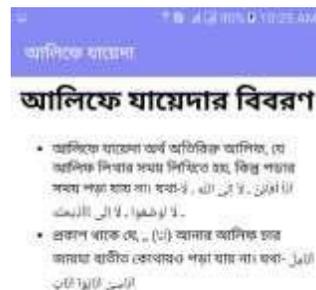


Figure 5.10: Screenshot of Aliphe Jayeda activity.

In figure 5.11 a screenshot is inside the Description Of The Lam In The Word Of Allah activity. In this activity user can learn about this. In this activity user can learn about the Description Of The Lam In The Word Of Allah. This activity has two pages one is description of this and another is pronunciation.

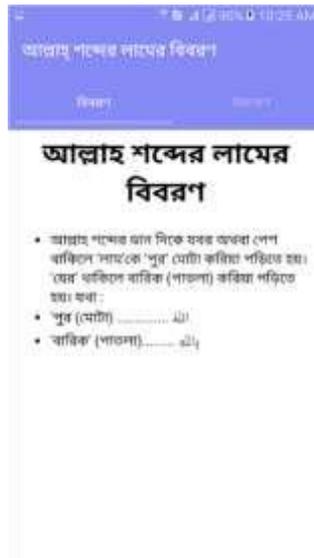


Figure 5.11: Screenshot of Description Of The Lam In The Word Of Allah activity.

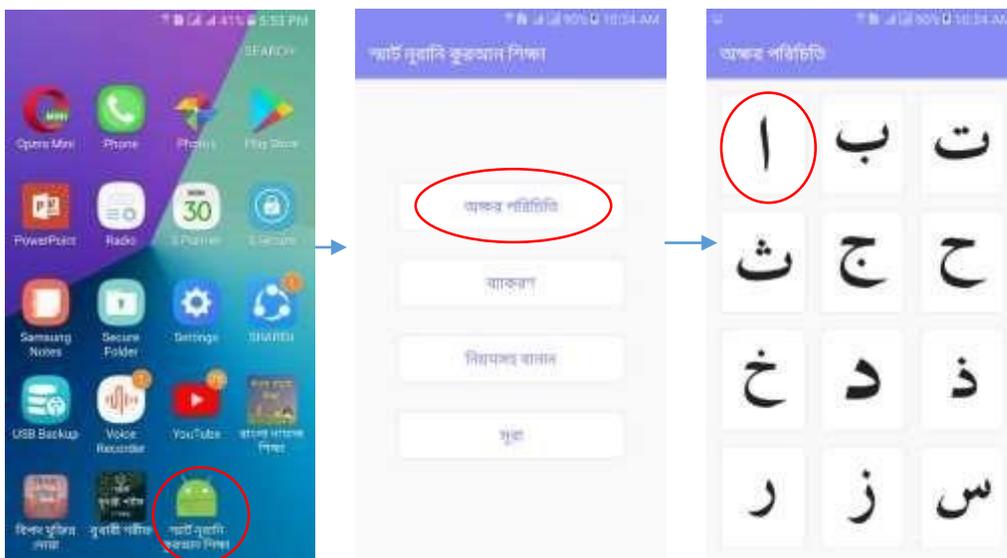
In figure 5.12 a screenshot is inside the Spell With Rules activity. In this activity user can hearing the sound of two types one is just the pronunciation and another is pronunciation with spelling and this two words will be heard together.



Figure 5.12: Screenshot of Spell With Rules activity.

5.3 Implementation of Interaction

The successfulness of a system is completely depend on the interaction with the user. Now a days, interaction is found everywhere. Interaction is which makes a system popular and attractive to a user. So, it is very important to make a system interactive. Our system is totally user friendly and user can easily interact with our system. Our application is successfully implemented and has impressive interaction with the users. As we are not using SQL database so we are not using login and sing up button. So any user use our application without any sing up. Our application main feature is learning Quran hearing the sound of two types one is just the pronunciation and another is pronunciation with spelling. We first time use this types of sound. This application is offline application do not need any internet connection to run. So user's requirement has been full filled.



User first click the application icon then see the four buttons. If user tap on character introduction then saw the alphabets, to listen the sound of every single alphabet just tap on the alphabet.

5.4 Testing Implementation

Testing implementation is process of testing the implementation of a system, where tester or system architect will see various cases and specification, is it implementable or it has limitations. We tested the case with which the user interfaces can be used. We checked the application is user-friendly or not. The testing step is very challenging because in our application was many bugs and this bug fixing was very hard. At least we do our project application testing implementation very successfully.

5.5 Test Results and Reports

Our application project have an output result. We have found all expected results as per our testing experience. Every user can run our application without any sign up and login. User learn Quran easily hearing two types of sound. It is offline application so no need to internet connection. Our application is user friendly and attractive.

Table 5.5.1: Testing Implementation

Test Case Number	Test Description	Result (Pass/Fail)
TC-01	Tap on the App icon and it opens the home page.	Pass
TC-02	Find the letter Gim.	Pass
TC-03	Click to hear sound	Pass
TC-03	Find the button Horkot and Tanbin	Pass
TC-03	Find the Arabic grammar	Pass
TC-03	Close the app	Pass
TC-03	Find the button Madd	Pass

Table 5.5.2: Testing User Percentage

SN	User Number	Percentage
01.	UID-001	100%
02.	UID-002	93.33%
03.	UID-003	100%
04.	UID-004	100%
05.	UID-005	100%
06.	UID-006	100%
07.	UID-007	100%
	Average Percentage =	99.04%

CHAPTER 6

Conclusion and Future scope

6.1 Discussion and conclusion

Our project focuses on providing easy way to learning Quran. The Holy Quran is fountain head of entire learning, but there is a striking difference between the Holy Quran and other books The Quran is word of Allah. We created an app how to learn easily and how recite fluently. All knowledge originates from the Holy Quran. We need to get out of the darkness of ignorance and move towards the limelight and bright future. Using our project, anyone can learn and listen sound easily. We built “Smart Noorani Quran Shikkha” which is android base project where our main them of work is learning with entertainment. We try to our best to make it more useful and easy to learn. We think that we can learn them with proper grammar and listening sound with pronunciation. If the project help them 1% we think that is our gain to make the app. In our app,

- Can be used to teach any age people in learning Arabic language as well as learning Quran.
- Anyone can learn easily for this application’s pronunciation system.
- Some people who are new or wish to learn the Quran for the first time or could learn previously and now can’t recite fluently for lack of practice or has forgot to recite, though we are eager to learn the Quran but we haven’t enough time to go to teacher for learning the Quran.
- User have to start without any login or sing up then user show character contacts, grammar, spell with rules.
- Main important thing is to learn the Holy Quran from a teacher who has proficient knowledge of Quran so that he/she gets better in understanding the Quran but it is not possible for them because of time shortness.
- User first click the application icon then see the four buttons. If user tap on character introduction then saw the alphabets, to listen the sound of every single alphabet just tap on the alphabet.

- In grammar when user click then show all grammatical rules Makhraj, Madd, Description of waqf, Sakin and Tashid, Jazam and Kalkala, Horkot and Tanbin, Aliphe Jayeda, Name In The Word Of Allah. In Madd, Sakin and Tashid, Horkot and Tanbin, Name in the Word of Allah have sound with pronunciation.

6.2 Scope for Further Development

We have few scopes to develop in future as followings:

1. Creating new learning system.
2. Adding more Arabic words with sound.
3. Adding more grammatical rules.
4. Adding surah with sound.