



Daffodil
International
University

adeptpolicy.com

By

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A project submitted in partial fulfillment of the requirement for the degree of Bachelor of
Science in Software Engineering

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY
Fall – 2018

APPROVAL


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It hereby declares that this project has been done by us under the supervision of **Ms. Syeda Sumbul Hossain**, Lecturer, Department of Software Engineering, Daffodil International University. It is also declared that neither this report nor any part of this has been submitted elsewhere for award of any degree.

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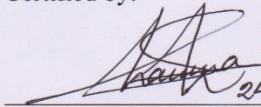
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EXECUTIVE SUMMARY

“adeptpolicy.com” is an online platform. It will provide company’s service related information and also help product selling. Now a days we are all time confused when we take some decision, we don’t understand which decisions are right for us. Lack of information is one of major reason for take right decision. If we have so many information about the problems then we can easily find out the solutions of the problems. “adeptpolicy.com” will provide this kind of important information which help them to take right decision.

We know that every company has different marketing strategy and different service related information for their customer. Sometime the company represent their service related information by making Ads. This Ads help them to promote their product or service but now broadcasting cost is very high so small and middle companies can’t share their service related information. “adeptpolicy.com” will help the company’s to share their service related information.

Table of Contents

APPOVAL	II
DICLARATION	III
ACKNOWLEDGEMENT.....	IV
EXECUTIVE SUMMARY	V
1. INTRODUCTION.....	01
1.1 Project Overview.....	01
1.2 The Purpose of the Project	01
1.2.1 The User Background of the Project Effort.....	01
1.2.2 Goals of the Project	02
1.3 The Scope of the Work	02
1.3.1 The Current Situation	02
1.3.2 The Context of the Work	02
1.3.3 Work Partitioning	03
1. 4 Beneficiaries and Benefits.....	03
1. 5 Naming Conventions and Definitions	03
1.5.1. Definitions of Key Terms	03
2. PROJECT PLANNING.....	04
2.1 Project Scenarios	04
2.1.1 Project Scenario List.....	04
2.1.2 Proposed System Model	04
2.2 Stakeholders	04
2.2.1 Other Stakeholders	04
2.3 Implementation Environment of the Current System	05
2.3.1 Anticipated Workplace Environment	05
2.4 Budget Constraints.....	05
2.5 Project Schedule.....	06
2.6 Risk Analysis.....	07
2.7 SWOT Analysis	08
3. REQUIREMENTS SPECIFICATIONS.....	09
3.1 Functional Requirements.....	09
3.2 Data Requirements	09

3.3 Performance Requirements	09
3.3.1 Speed and Latency Requirements.....	09
3.3.2 Precision or Accuracy Requirements	09
3.3.3 Capacity Requirements.....	10
3.4 Dependability Requirements.....	10
3.4.1 Reliability Requirements	10
3.4.2 Availability Requirements.....	10
3.4.3 Robustness or Fault-Tolerance Requirements.....	10
3.5 Security Requirements	11
3.5.1 Access Requirements.....	11
3.5.2 Integrity Requirements	11
3.5.3 Privacy Requirement	11
3.6 Release Requirements.....	11
4. SYSTEM ANALYSIS	12
4.1 Use Case.....	12
4.1.1 Description of (Use Case Diagram).....	12
4.2 Activity Diagram.....	13
4.3 Activity Diagram (Registration).....	14
4.4 DFD Diagram.....	15
4.5 Sequence Diagram	16
5. DESIGN & DEVELOPMENT.....	17
5.1 Design and Implementation Constraints	17
5.1.1. Software Language or Framework	17
5.1.2. Database Design or Architecture	17
5.1.3 File Management	17
5.2 Data Entry (tools or aggregate backlog data)	17
5.3 Development Tools and Technology.....	17
5.3.1 User Interface Technology	17
5.3.2 Implementation Tools and Platform	18
5.4 Proposed Software Architecture.....	18
5.4.1 Subsystem Decomposition	18
5.4.2 Access control and security	18
5.4.3 Global software control.....	18
5.5 Home page of adeptpolicy.com.....	19

- 5.6 Company Registration19
- 5.7 Company Add there service related information.....20
- 5.8 Browse Categories21
- 6. TEST PLANS22**
 - 6.1 Testing Features22
 - 6.1.1 Features to be tested22
 - 6.1.2 Features not to be tested22
 - 6.2 Testing Strategies22
 - 6.2.1 Test Approach.....22
 - 6.3 Pass/Fail Criteria.....22
 - 6.4 Testing Deliverables.....22
 - 6.4.1 Project Status Report.....22
- 7. CONCLUSION23**
 - 7.1.1 Critical Evolution and Team Attainment.....23
 - 7.1.2 Limitations23
 - 7.1.3 Obstacles & Achievements23
 - 7.1.4 Future Scope.....23
- 8. REFERENCES.....24**

1. INTRODUCTION

1.1 Project Overview

“adeptpolicy.com” is a web application that will create a unique platform and also give proper solution by the real life problems. It also help to create a new dimension of our everyday life. “adeptpolicy.com” will give us many important information which help us very much. Example:

- Service related information (Ex. Bank, Insurance, constituent, farmers etc.)
- Which product or loan are available now without interest (0%) free.
- Discount or offer related information.
- New fashion or new arrival product related information.

In this platform all kind of company will come and share his product or service related information without any cost. So this platform make a communication between company and customer and help both of them.

1.2 The Purpose of the Project

Purpose of “adeptpolicy.com” is:

- ❖ By sharing service related info the organization could be connected with their customers.
- ❖ Reduce the marketing cost of organizations.
- ❖ By updating the manual process it will reduce the cost and physical exhaustion of the customers.
- ❖ Organizations can share service related information free of cost with their customers.
- ❖ Consumer will get information free of cost which will help them take their decision.

1.2.1 The User Background of the Project Effort

In our everyday life when we take any decision we are try our best to take a right decision but after finished the work we see some time our decision was right and sometime our decision was wrong. If we deeply think about that then we understand why it happen. Before take a decision sometime we are confused about the decision, we are confused because lack of knowledge about the work and some time we cannot find out the right way.

Say for example: Rafik is a small job holder, he is very worried about his family, he want to open a life insurance but he has no proper knowledge about it. He don't know about the right way so he is very much confused about it.

Another scenario we know every kind of organization has a service related information. Big or established company represent their new or upcoming exclusive service making add or use other marketing strategy but it's very costly, now if we think about startup or small company it's very difficult for them. So in the race small or startup company cannot fulfill his goal because they are fail to make attention for his customer.

1.2.2 Goals of the Project

This project is an information base application. So main challenge was collect data and communicate with company. This platform help a startup and small company to represent their service related information. It also help them to reduce their marketing cost. If they use this application it help them to grownup there business. In this platform user see there the needed information it will help them to take a right decision and also can share their opinion

The goal of “adeptpolicy.com” is to make a Simple and user-friendly web application. “adeptpolicy.com” will represent information which will help them to take a right decision and at the same platform any kind of organization share his service related information without cost.

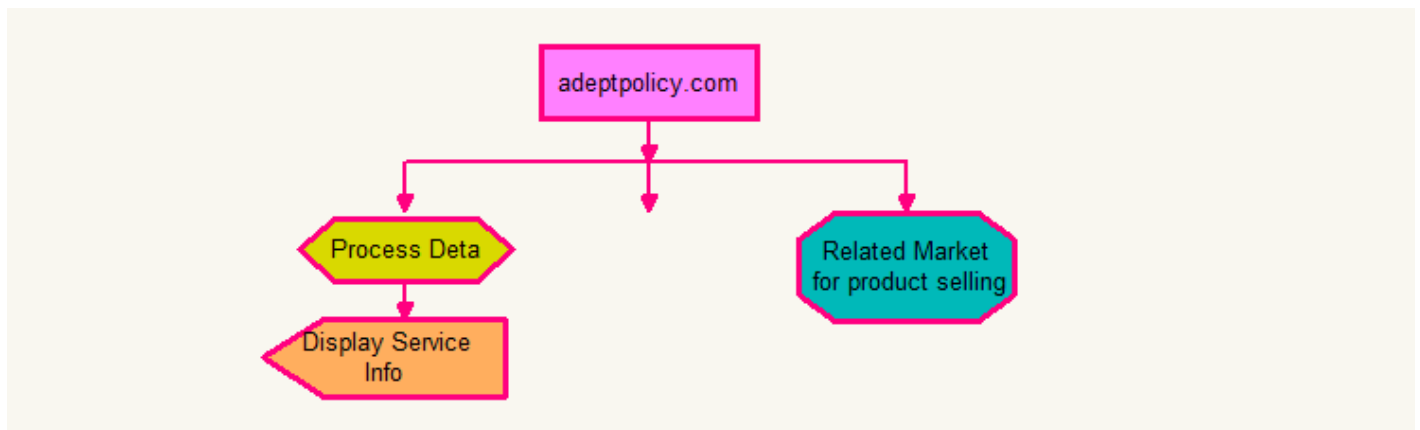


Figure 1.1: Overview of adeptpolicy.com

1.3 The Scope of the Work

1.3.1 The Current Situation

There is no web application like “adeptploclcy.com”.

The proposed activity is done but I am thinking about an android app. In near future, android app will be added with “adeptpolicy.com”.

1.3.2 The Context of the Work

My website is fully ready, I have developed all needed parts about this idea. Company will add their data like any kind of information for their customer, company logo, about company details. Etc. And people will search and they will find details about that.

1.3.3 Work Partitioning

There are 5 main modules in this project.

1. Search from database by heading.
2. Add company name and their service details.
3. Admin approval then a company can upload this post.
4. Admin or company owner can delete post.
5. Customer can share his opinions.

1.4 Beneficiaries and Benefits

- Able to reach most of the people.
- Able to reach Most of the companies.
- Able to check before purchasing.
- Can be used from anywhere.
- Companies can do business smartly.
- People can know about important info.
- Help to take a right decision.
- Save money and time.
- Help to grow up there business.

1.5 Naming Conventions and Definitions

1.5.1 Definitions of Key Terms

Database: Collection of all the information monitored by this system.

Field: A cell within a form

Software Requirements Specification: A document that completely describes all of the functions of proposed system and the constraints under which it Operate. For example, this document.

User: Anyone who are interested.

2. PROJECT PLANNING

2.1 Project Scenarios

2.1.1 Project Scenario List

Point out different scenario view from multiple user's point. Like- Public, User, Admin. What will be their task? What they can perform and output.

- The user (customer) can search.
- User (customer) can share their opinion.
- User (company) can register.
- User (company) can add their information.
- User (company) can delete and edit.
- User (Admin) approve request.
- User (Admin) delete any post.

2.1.2 Proposed System Model

Company are come in our side and send a registration request. Admin will check it and approve the Request. After confirm Registration Company can share their service related information that they are want to share with their customer. At the same time company can update delete and edit their post. Customers come and search for their needed information and customer can share their opinion with the company. Admin can delete any post if he want.

2.2 Stakeholders

Stakeholder:

- The Company (Any kind of company can share their service related information).
- The user (Interested people can visit my site, this site has no user restriction)

2.2.1 Other Stakeholders

- Tester: This person is responsible for testing the project.
- Admin: The admin is responsible for taking care of the system.
- System Designer: This person is responsible for designing the project.
- Developer: This person is responsible for developing the project.

2.3 Implementation Environment of the Current System

To complete this project, I have used, **Sublime Text** as Text Editor. **Xampp** Server as a combination of Apache Server, PHP and MySQL Database. I have used PHP Laravel framework to develop this project. **Bootstrap** as Web Design Integrated Framework with HTML and CSS. **PhpMailer** as mail library.

2.3.1 Anticipated Workplace Environment

I have used PHP Laravel framework to develop this project. I will use sublime text as text editor. PhpMailer as email library, and Xampp server as a combination of apache web server, Php, and MySQL database. Bootstrap as integrated framework of html, Css, JavaScript and jQuery. Combining these tools, I developed this project.

2.4 Budget Constraints

Estimated Budget:

Domain cost: 10\$ per year.

Hosting cost: 70\$ per year.

Other Costs:

Estimated cost per hour is 10\$

Requirement Analysis:

(20 days) (4 hours per day) ($10 \times 5 = 80$ hours)

Cost = $80 \times 10\$ = 800\$$

System design:

(10 days) (4 hours per day) ($10 \times 4 = 40$ hours)

Cost = $40 \times 10\$ = 400\$$

Implementation & Testing:

(30 days) (8 hours per day) ($30 \times 8 = 240$ hours)

Cost = $240 \times 10\$ = 2400\$$

Deployment:

(5 days) (5 hours per day) ($5 \times 5 = 25$ hours)

Cost = $25 \times 5\$ = 125\$$

Maintenance:

Infinitive Time.

Cost = 1000\$

Internet cost: 20\$

Electricity cost: 10\$

Other cost (laptop, accessory, communication) = 100\$

Total Cost: 4935\$

2.5 Project Schedule

A timeline is a way of displaying a list of events in chronological order, sometimes described as a "project artifact". It is typically a graphic design showing a long bar labeled with dates alongside itself and usually events.

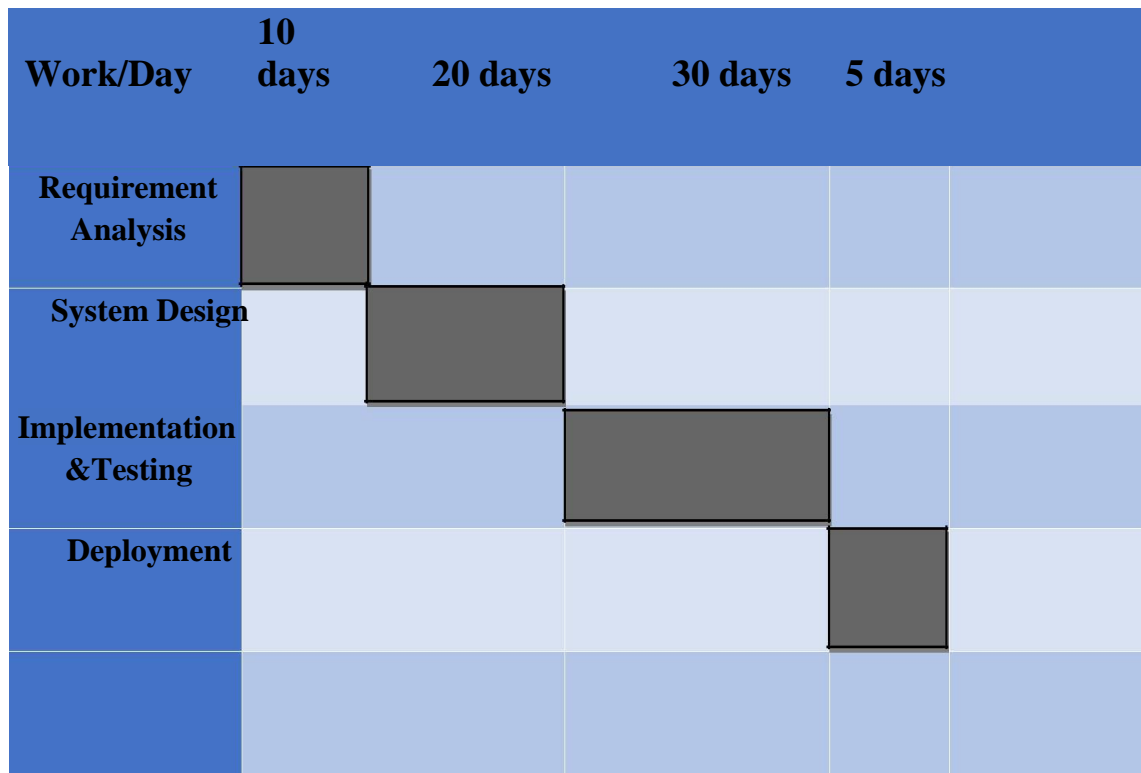


Figure 2.1: Project Timeline figure

2.6 Risk Analysis

Risk Name	Impact	Probability	My priority	Mitigation plan
Misunderstanding user Requirements	High	Medium	1	User feedback analysis
Exceeding schedules and budgets	High	High	3	Make effective plan
Scarcity of arranged information	High	Very Low	1	No risk of information scarcity
Team's lack of general expertise	High	Medium	2	I completed whole process Carefully.
Lack of users wish in reporting	High	High	5	Highlighted Alert to user for reporting of their Own need.

Figure 2.2: Risk analysis table

2.7 SWOT Analysis

Strength:	The “adeptpolicy.com” is 100% Unique and there is not site like this. And it Is very useful too. This project/Website will solve a problem that can change the Experience of product buying and selling.
Weakness:	There is not android app with this project. But In future I will make an android app for This.
Opportunity:	“adeptpolicy.com” will make a new dimension in our everyday life and also help to make our life easy.
Threat:	Bad peoples try to hack this site and sometime input fake information in “adeptpolicy.com”.

Figure 2.3: SWOT Analysis Table

3. REQUIREMENTS SPECIFICATIONS

3.1 Functional Requirements

In Software engineering and systems engineering, a functional requirement defines a function of a system or its component. A function is described as a set of inputs, the behavior, and outputs. Functional requirements may be calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish.

Behavioral requirements describing all the cases where the system uses the functional Requirements are captured in use cases. Functional requirements are supported by non-functional requirements (also known as quality requirements), which impose constraints on the design or implementation (such as performance requirements, security, or reliability).

The plan for implementing non-functional requirements is detailed in the system architecture.

- Searching.
- Registration and Log in.
- Add Information.
- Customer Opinion.
- Edit and Delete Information.

3.2 Data Requirements

The main data for this project will be added by company users. Such as the company will add there company service related information. And after adding there service related information then people will search and know about their service. A data warehouse requirements specification states the project objectives and goals and related data storage, data integration, information delivery, security, quality, usage, functional and nonfunctional requirements that must be delivered in order to achieve the project objectives. The requirements specification provides a means of specifying all requirements and the criteria that will be used to accept that the requirements have been met. It helps ensure that the technical team does not design and build something that is not specified.

3.3 Performance Requirements

3.3.1 Speed and Latency Requirements

To process a search query, it should not take too much time. Cause all the data are stored directly in one database. And for releasing pressure from one table I divided into relational tables.

3.3.2 Precision or Accuracy Requirements

Accuracy totally depends on company users. The data will be added by company users. So if the input a wrong input people will get inaccurate results. For avoiding this they should check the data carefully before inserting. There is no one standard definition of an accuracy non-functional

requirement. It will be defined for each project where it needs to be specified. This principle is true of all non-functional requirements.

For the purposes of this article an accuracy non-functional requirement is any requirement that is not a functional, data or process requirement concerned with defining the precision which the solution will record or produce data.

3.3.3 Capacity Requirements

It is an online app and will serve multiple users at a time. For getting better result the users should have a good network/internet connection. The system calculates the capacity requirements for networks using the formula that you have entered in the capacity detail screen of the work center.

3.4 Dependability Requirements

3.4.1 Reliability Requirements

All data will be added directly by company users. So, it's their duty to input the data in time and delete the invalid data in time. So, they should do it in time. And they will never input inaccurate information about their products. And the database is secured. So, there is no chance to store fake information in database. The data is totally reliable.

3.4.2 Availability Requirements

“adeptpolicy.com” will be hosted in a good hosting. So, I hope the website will be available almost 100% time. And the bandwidth of the hosting sever will be high, so, there is a little chance of visitor overflow.

3.4.3 Robustness or Fault-Tolerance Requirements

“adeptpolicy.com” is robust. So, it will helpful for the user because he/she can find their Product info in a short time. It will work smoothly. The user can search the serial key randomly from any products.

3.5 Security Requirements

3.5.1 Access Requirements

There is two types of user, one registered company users. And another one is customer. The customer can validate their page by searching with the unique serial number given with the product. And the registered user will have to login to access their required access. They will have access to add product to database, add serial number to database, delete product from database, delete serial number, update account etc. Project Admin will have access to remove a user or add a user.

3.5.2 Integrity Requirements

Data integrity is the security property that ensures that data meets a given expectation of quality and has not been exposed to accidental or malicious modification or destruction. All input data must be appropriately validated. All data that is going to be inserted into database is properly validated. No chance of input malicious data input to database. I tried to protect my system from sql injection for that I used `real_escape_string` function for encryption of data.

3.5.3 Privacy Requirement

There is no privacy for customers. They also have nothing confidential here. They will just search and check their needed information. There is lots of privacy for company users. They will have access to add information and then delete or edit information. If needed they can delete product from list too. One company can't access another company's data. Admin will also have access to delete or add users.

3.6 Release Requirements

In our project two types of version-

1. Alpha version (α).
2. Beta version (β).

1. Alpha version (α): This version of project mainly used by developer/tester to find out the bugs. I already fixed all bugs after completing development.

2. Beta version (β): The releasing version is beta version. I have fixed all bugs that I noticed. But till now there can be some bugs that I don't know. So, people will use it and if they face any problem they will report to me then I will fix it.

4. SYSTEM ANALYSIS

4.1 Use Case Diagram

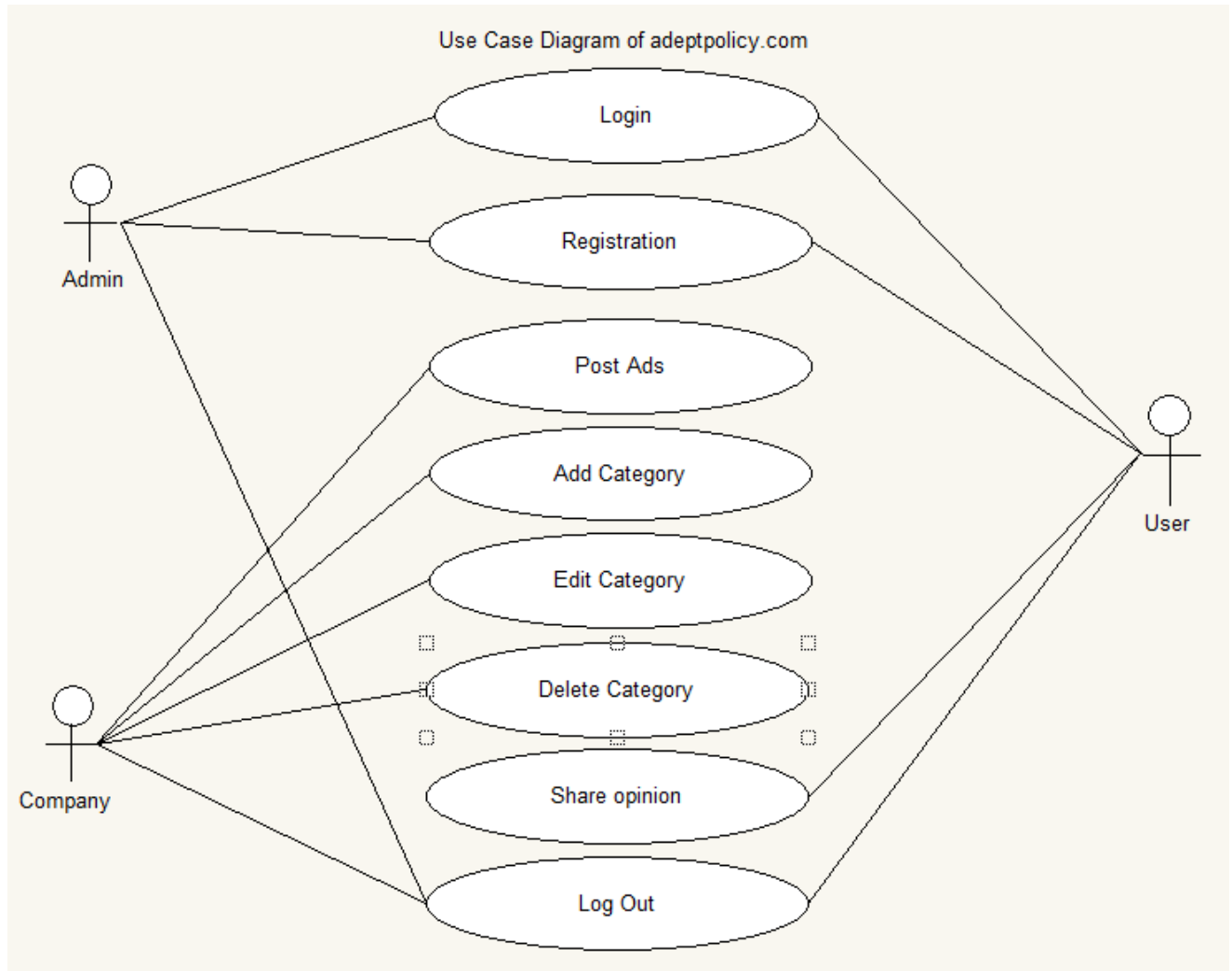


Figure 4.1: Use Case Diagram

4.1.1 Description of Use care Diagram

Login and Registration: Admin, Company owner and user need to registration first for log in.

Post Ads: Company owner can share his service related information.

Add Category: Company owner can add their post.

Edit Category: Company owner can edit their post.

Delete Category: Company owner can delete their post.

Share Opinion: User can share his opinion.

4.2 Activity Diagram

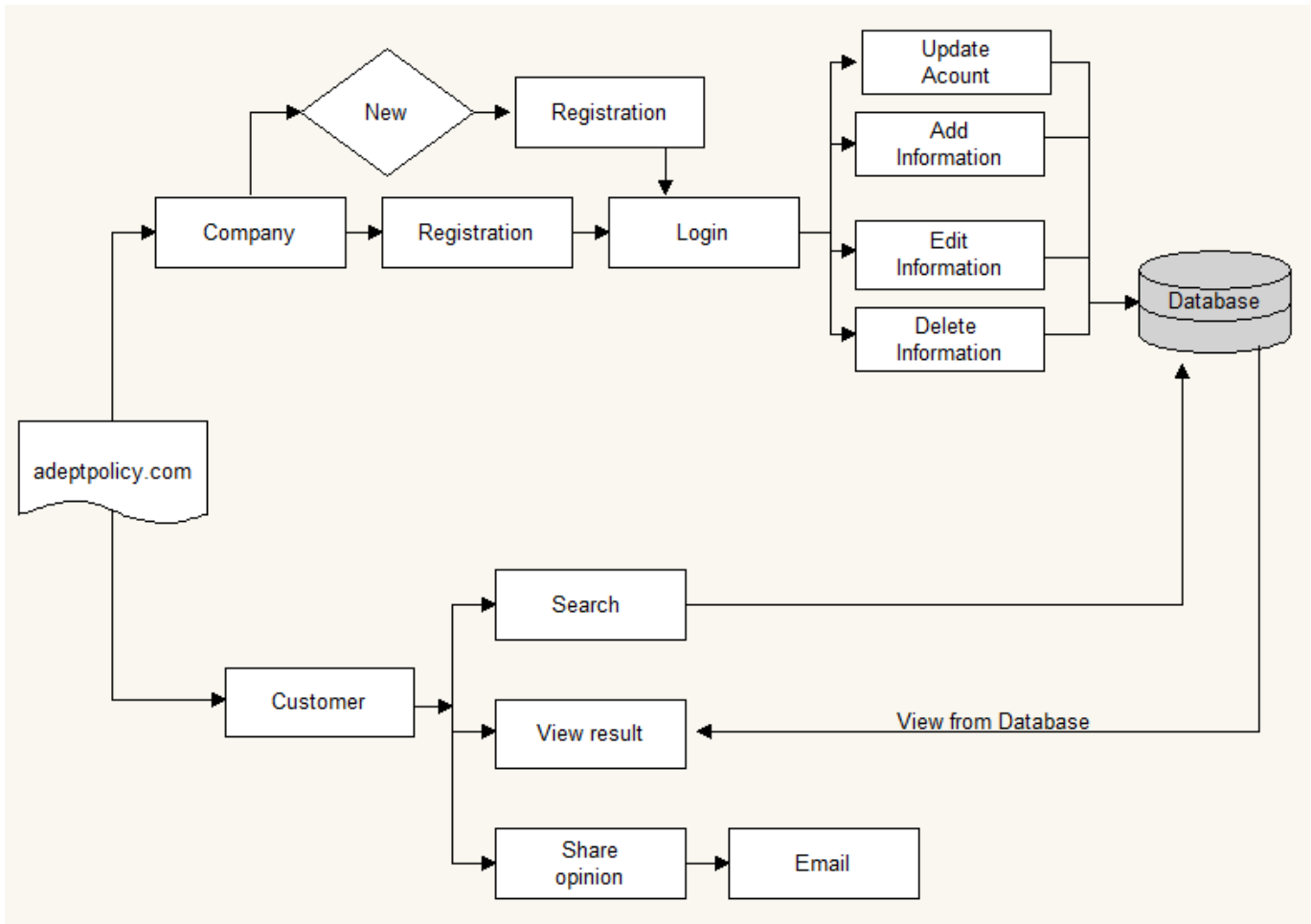


Figure 4.2: Activity Diagram of adeptpolicy.com

4.3 Activity Diagram (Registration)

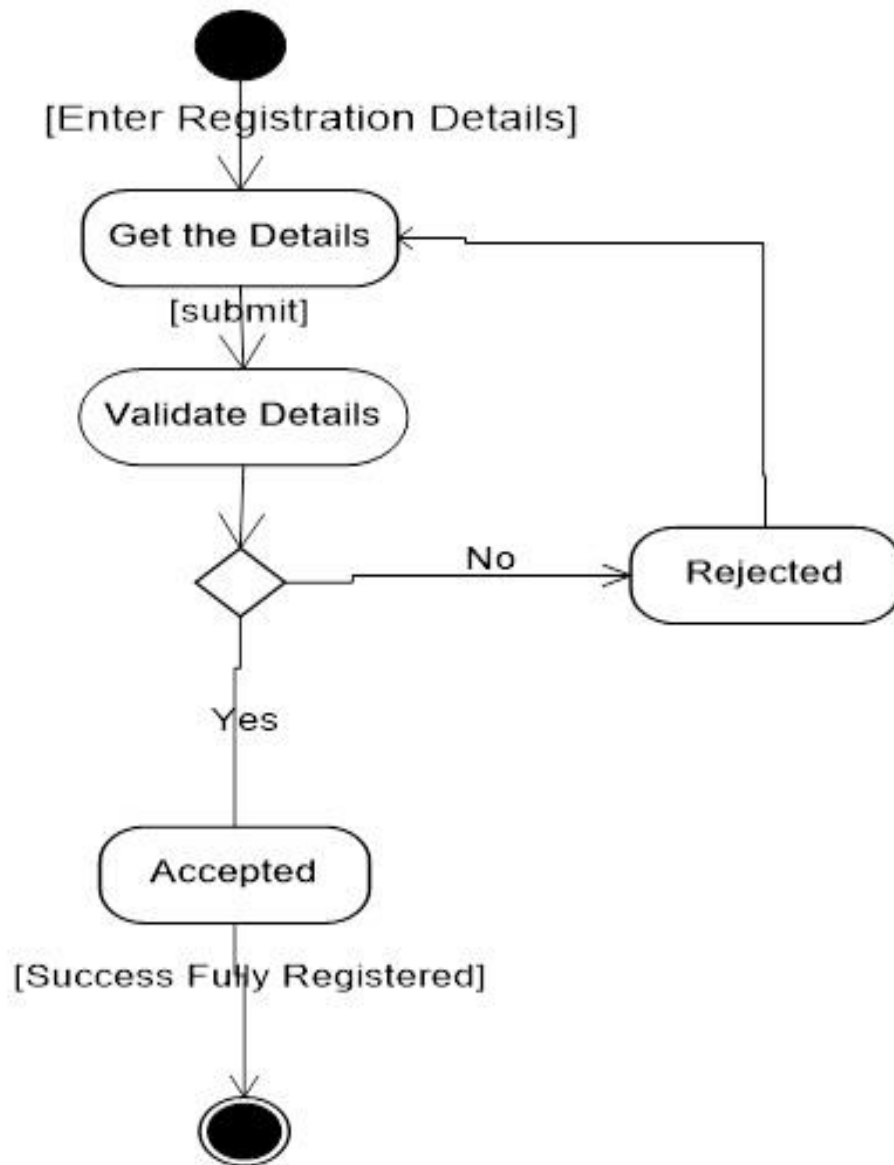


Figure 4.3: Activity Diagram (Registration) of adeptpolicy.com

4.4 DFD Diagram (Login)

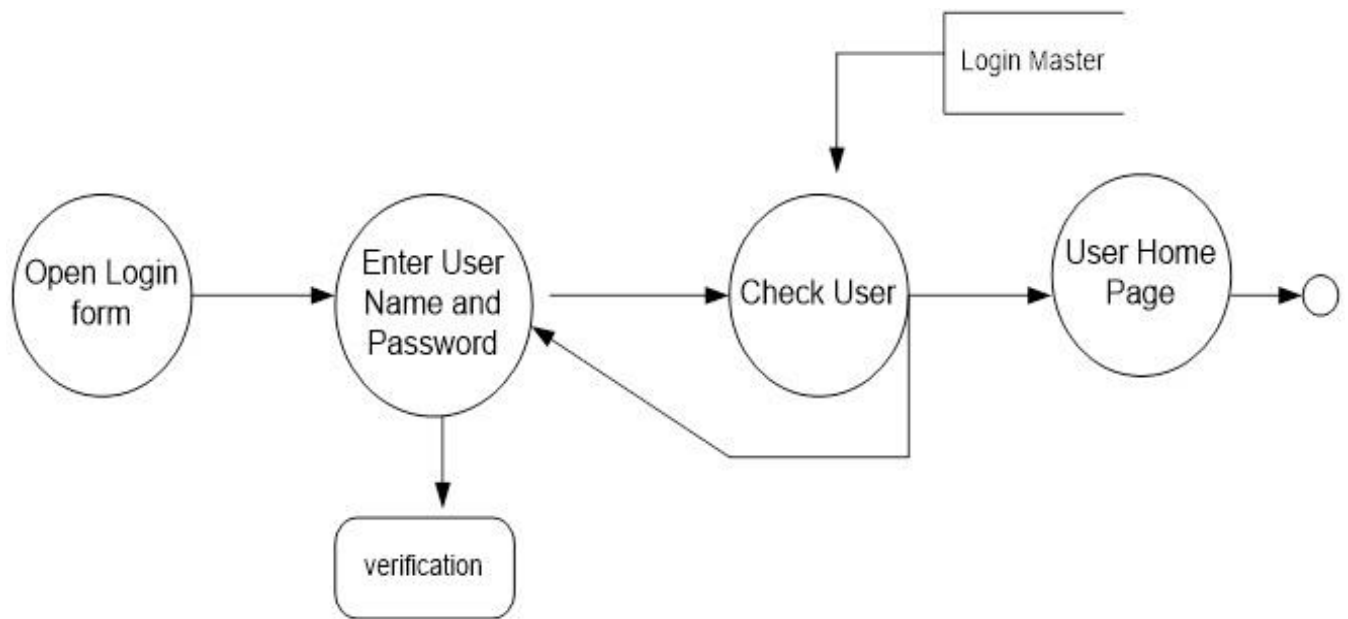


Figure 4.4: DFD Diagram (Login) of adeptpolicy.com

4.5 Sequence Diagram

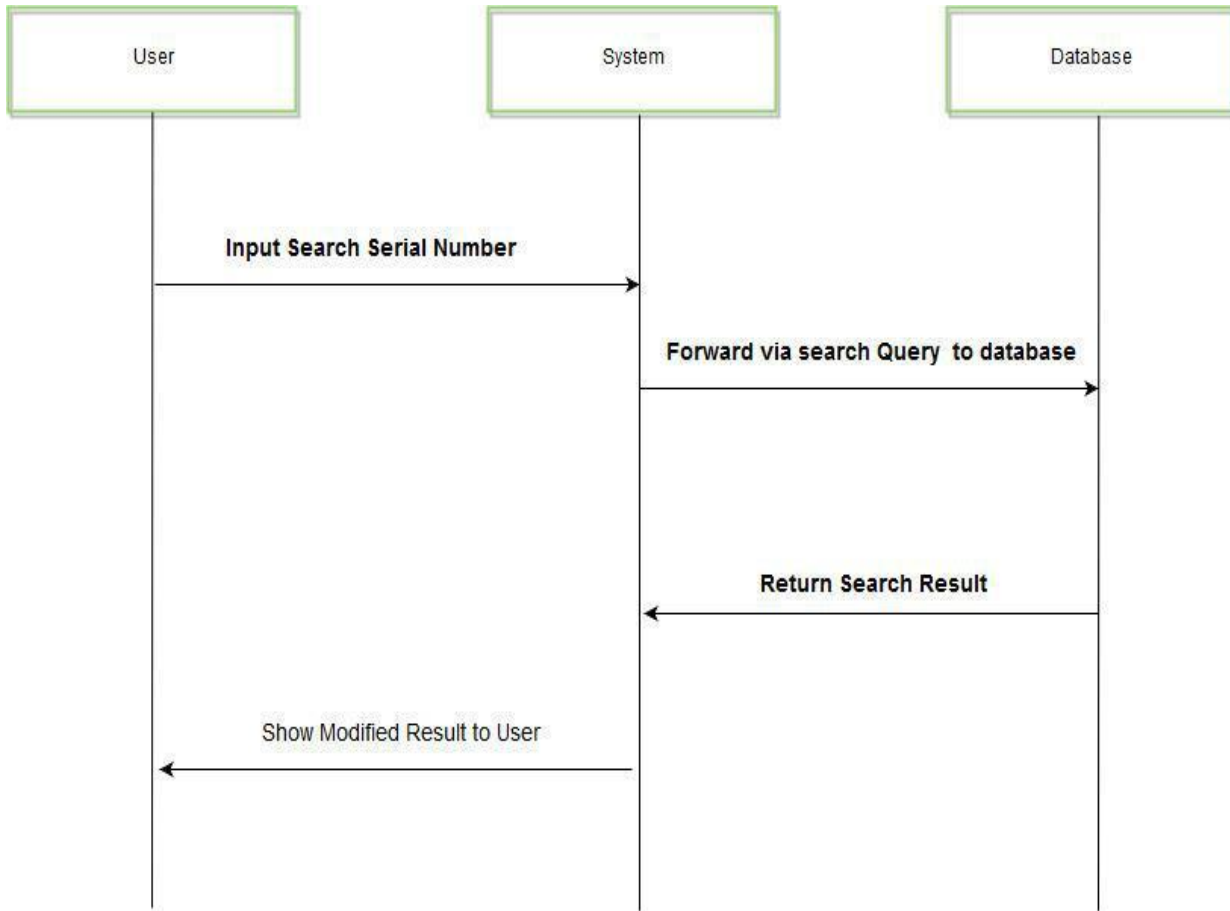


Figure 4.5: Sequence Diagram of adeptpolicy.com

5. DESIGN & DEVELOPMENT

5.1 Design and Implementation Constraints

5.1.1 Software Language or Framework

I used Php Laravel Version 5.5 for the development of “adeptpolicy.com”. I used Xampp server as a combination of Apache Web Server, Php and MySQL. I used Sublime Text as text editor. PhpMailer was used for mail library, No Php framework was used during development process. For design, I used bootstrap and bootstrap studio as a combined framework of Html, Css, JavaScript and JQuery.

5.1.2 Database Design or Architecture

For this project, I used Database MySQL. MySQL is a popular light weight database software. And for most of the web project developers use MySQL. As it is used today by several widespread browsers, operating systems, and embedded systems (such as mobile phones), among others. MySQL has bindings to many programming languages.

5.1.3 File Management

For this project, I used Windows explorer for file management. I used different folder for storing different PHP functions.

5.2 Data Entry (tools or aggregate backlog data)

For Data entry, I used my developed web interface linked to MySQL database through query. I used phpmyadmin too. Some data was added through GUI of phpmyadmin but most of the data of this project will be added through my designed and developed web interface. There is two web interfaces for inserting data into database. One is Add product for adding product from a brand. Another one is Add serial for adding serial number from a product. It is for users and developers wanting to create databases, search, and edit data. It uses a familiar spreadsheet-like interface, and you don't need to learn complicated SQL commands.

5.3 Development Tools and Technology

5.3.1 User Interface Technology

I used HTML and CSS for user interface design. I used bootstrap framework for designing user interface which is a combination of HTML, CSS, JavaScript and JQuery. I also Used JavaScript for making user interface dynamic.

5.3.2 Implementation Tools & Platforms

I used Xampp server for the combined form of Apache server, PHP Laravel framework, and MySQL database.

Text editor was Sublime Text and sometimes I used Notepad ++.

For database table creation and relationship, I sometimes used phpmyadmin interface and sometimes I used query.

5.4 Proposed Software Architecture

5.4.1 Subsystem Decomposition

For running this project hosting pc must have to have Apache server, And MySQL Database, for taking service a computer must have at least one browser and internet connectivity.

5.4.2 Access control and security

In this website, the user (customer) do not need to register to use the service. But the user (company) must have to register to user their required service. To access their company interface, they will have to register and login with valid information. For confirming their membership, they will must have to verify email address.

5.4.3 Global software control

In this version of my project is online based. So, in this version there is global software control. The data of user will not be used for the personal need of website owner. The data of registered users will be 100% secured.

5.5 Home page of adeptpolicy.com

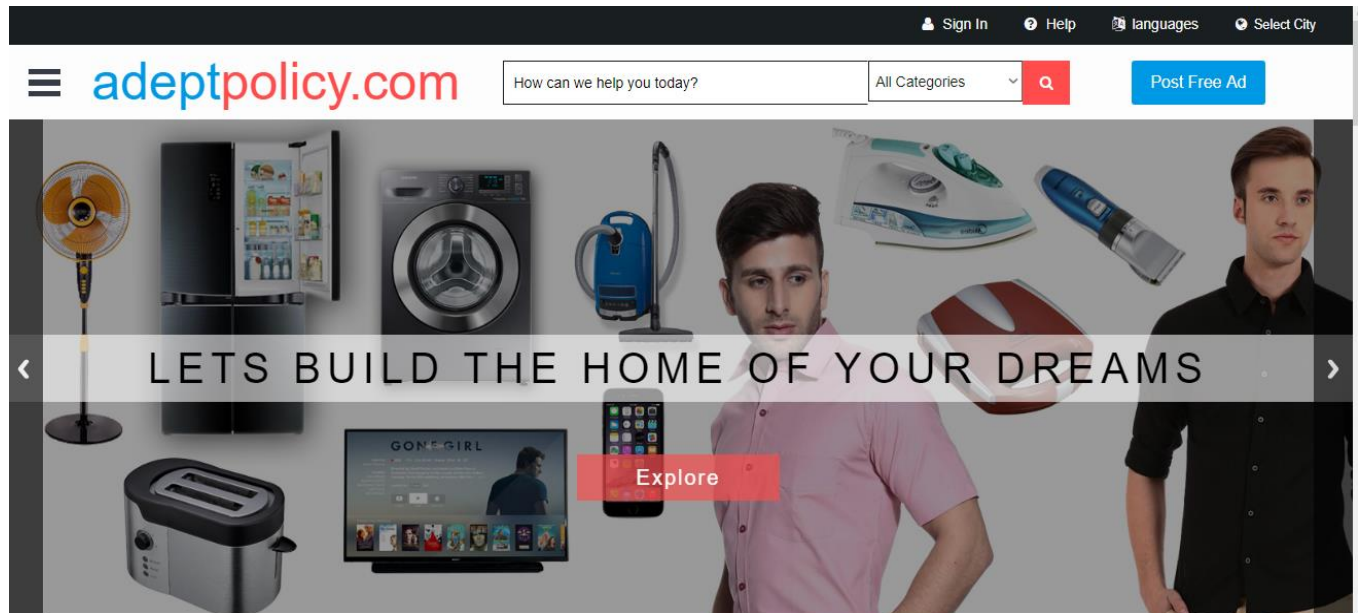


Figure5.1: Home page of adeptpolicy.com

5.6 Company Registration

The image shows a 'SIGN UP' form for company registration. The form is titled 'SIGN UP' and contains the following fields: 'Your Company Name', 'Your Email', 'Mobile', 'Password', and 'Confirm Password'. Below these fields is a checkbox labeled 'I agree to your Terms of Use and Privacy Policy'. At the bottom of the form is a blue button labeled 'SIGN UP'.

Figure 5.2: Company Registration of adeptpolicy.com

5.7 Company Add there service related information

Post an Ad

Select Category*

Ad Title*

Ad Description*

Photos For Your Ad: No file chosen

Status Messages

Your Name*

Your Mobile No*

Your Email Address*

By clicking **post Button** you accept our [Terms of Use](#) and [Privacy Policy](#)

Figure 5.3: Company Add there service related information of adeptpolicy.com

5.8 Browse Categories

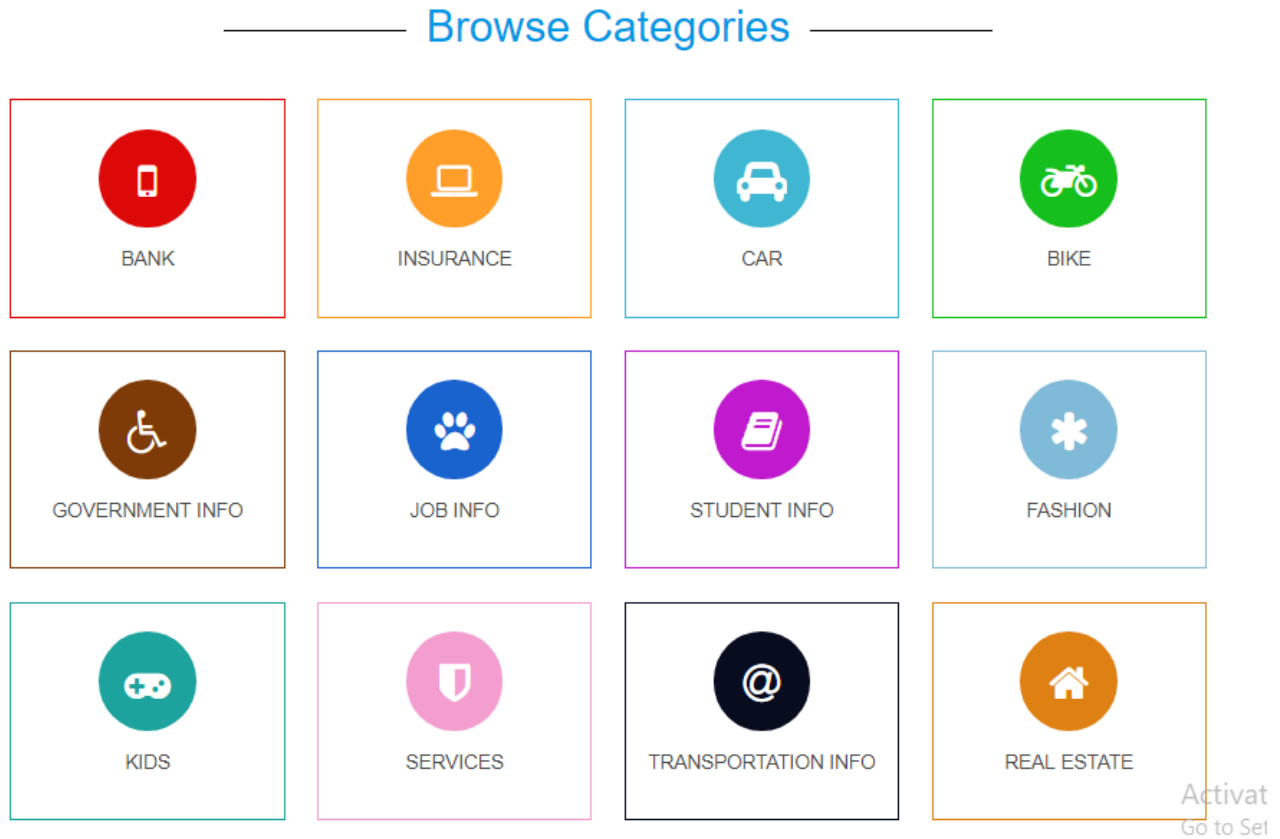


Figure 5.4: Browse Categories of adeptpolicy.com

6. TEST PLANS

6.1 Testing Features

6.1.1 Features to be tested

- Random Searching to check if there is problem in this option.
- Add Products and Add serials.
- Delete products and delete serials.
- Registration and login.

6.1.2 Features not to be tested

It is very hard to tell which function is not to be checked, which will save my time. In the testing section is will check function to meet my requirement and others function will be left as unchecked.

6.2 Testing Strategies

6.2.1 Test Approach

A small individual unit of the project is tested here separately to find out whether that unit is functional as expected or not. The crucial units of the project are only tested here.

6.3 Pass/Fail Criteria

1. Search with serial number –Pass
2. Sending Report Email to company--pass
3. Registration and Login --pass
4. Add product and add serial number-pass
5. Update Account -- pass
6. Mail Verification during Registration -- pass
7. Logout -pass

6.4 Testing Deliverables

6.4.1 Project Status Report

All type of test has done successfully. There were some errors during development but after completing development I have found no errors. All of them are now fixed. Now it is working without making any error or bug. All features are working correctly and showing the expected results. Database are responding very well. All the buttons are performing their action correctly. All text is showing at the right position, right font and color. It is totally usable for all user now. So, project is deliverable now.

7. Conclusion

7.1 Critical Evolution and Team Attainment

The project is fantastic. There are many challenge during development time. “adeptpolicy.com” is an information base application. So, the main challenge is get the information from the companies. If I can do marketing well for this project. Companies will be interested then they will star to register then add there service related information. I tried my best to overcome all the difficulties. I developed the whole project by one part after one. At first I designed user interface then I started to develop from registration part. And after all the project is ready to run as a beta release. After collecting some bug/error from beta version I will fix all of the bugs and will release main website.

7.2 Limitations

In this present time, everything become easy for the internet. For doing this project I have faced some of problems. In the internet, there are many websites but the “adeptpolicy.com” is unique in perspective of Bangladesh. And there are no big limitations. The website is free to use. No annual or monthly fee will be billed. Only one limitations are there is no android app with “Genuine Product Validator”, in near future I will try my best to add an android app with this project. And then the “genuine product validator” will be fulfilled.

7.3 Obstacles & Achievements

For this project development, we faced some obstacles.

1. It's a single project so I completed it by myself, it was too hard
2. Designing the main logic was the toughest part.
3. Lack of required resources
4. I had to learn many things during project development.
5. Lack of experience.
6. Selecting final project features.
7. Lack of programming knowledge in the starting of the project.
8. Computer hardware problem.

7.4 Future Scope

There are many features of my full version of project. At first I am working to solve a big problem. The problem is for both peoples and companies. So, there is limitless scope. After implementing the project with companies. They will advertise for my project at their own purpose So, I don't need to waste money and time on advertising.

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