Setudnyan Application

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ABSTRACT

In today's situation people do not want to come outside their home and make close contact to other people due to this COVID-19 virus. So, our purpose is to providing the one informative platform to such users. The Setudnyan Application will play a very significant role in rural areas where people don't understand the English language well. It will help to those people to understand the different processes for How to get the different government certificates or prerequisite of Sub-documents. This application will help or provides all the information related to documents like income Certificate, Caste Certificate, Farmer Certificate, etc. This application also provides information or different portals link of different government schemes. All users first create an account first, and then they can login through id and password.

Keywords: Informative Platform, Information Application

1 Introduction

The main aim behind this idea is to save time and efforts required for enquiry related to any government document and how they can get the required document in an easiest way. So to achieve this goal, we are introducing this idea using the android platform for the people those who need the information about government documents and the procedure behind this. All the information required for specific documents will be available on this android application for people in their own understandable language (Marathi). Using this application people can *get all* the information about a specific document and the documents required for it (i.e. sub-document) and related process in just a click on its name.

2 Working Methodology

- All the requirement is gathered and tried to implement it.
- Found out the actual functionalities and users of the system.
- Prepared detailed design structure like DFD's, use cases, sequence diagram and activity diagram.
- Decided the platform for implementation.

A. System Architecture:

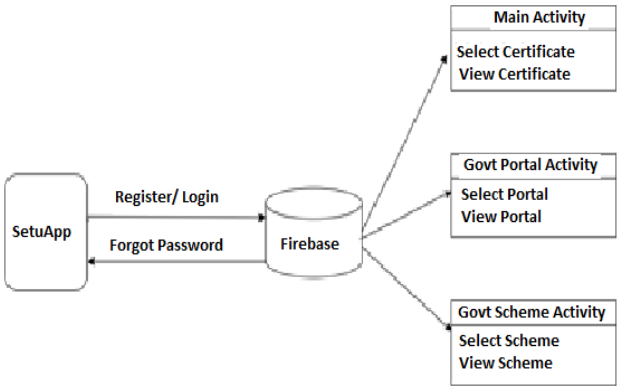

Figure 1: System Architecture

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In System architecture, we have user interface and system database which are co-related with each other. Result analysis is another interface used for analysing and calculating the result and display to the user.

B. Data Flow Diagram:

Figure 2: DFD Level 0.

In figure shown how the flow of data is to be processed. In software Engineering an entity relationship model (ER model) is a data model for describing the data or its process requirements, in an abstract way that lends itself to implemented in a database. The main components of ER models are entities among them. A data flow diagram is graphical tool that describe and analyse movement of data through a system.

C. Use Case Diagram:

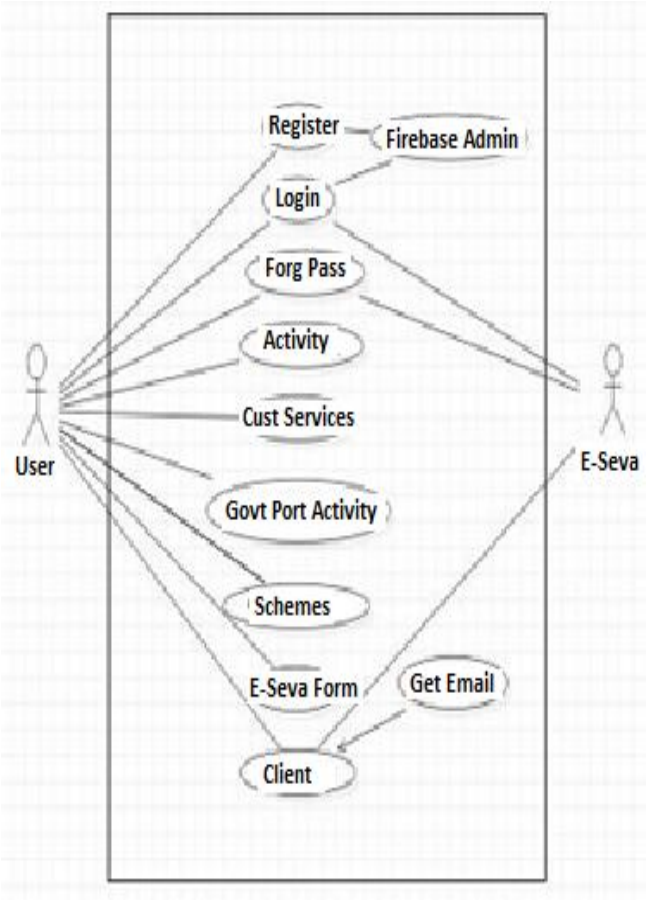

Figure 3: Use Case Diagram

In fig 3 shows the functionalities of system. Firstly, when user is new, then he or she should click on register and, after successful registration, again login.. And the data management will help for securely log in and log out. Also, user can get contact details of e-seva Kendra or directly user can send e-mail to the e-seva Kendra.

D. Sequence Diagram:

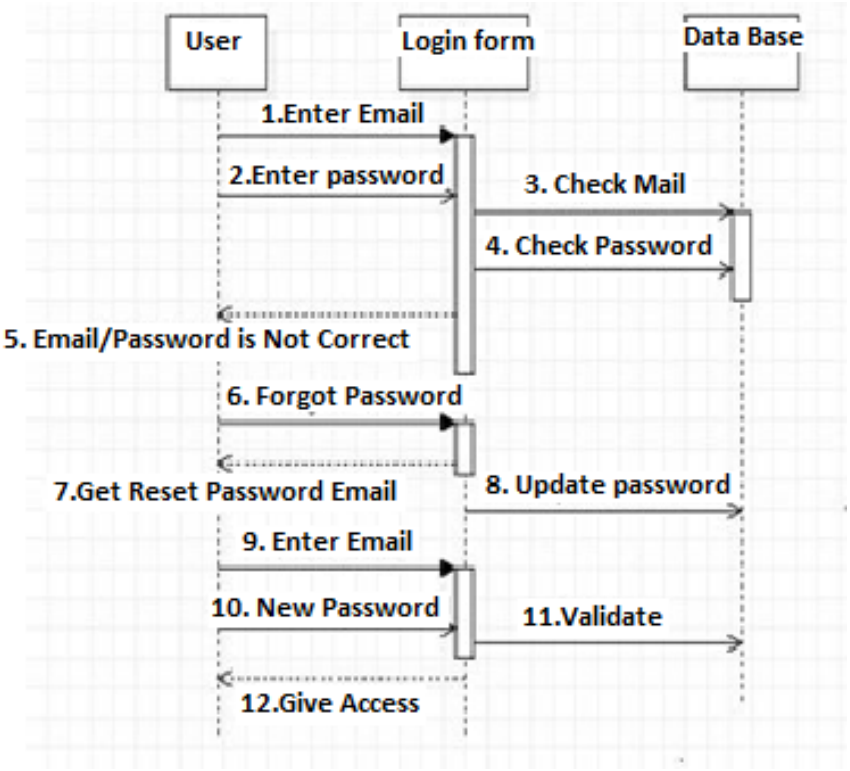

Figure 4: Sequence Diagram for Login

In fig 4 User and Database are the objects of system and they interact with each other by passing different messages. A sequence diagram is an interaction diagram that shows the time ordered of messages to log into system through firebase authentication. We use sequence diagram to illustrate the dynamic view of system.

3 Conclusions

Thus, this application provides a simple user interface with all the resources they need. The detailed information of certificates are mentioned in the application. In this application, we focus on language barrier also, and in the next version of this application, we will try to provide custom services to every user at their home address.

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