
Advance Software Engineering Project Proposal

1. Group Information

Team #: 12

Team Members:

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2. Project Goals and Objective

2.1 Motivation

- Have you ever thought of automating the appointments with the doctor? And have you ever thought of notifications about the diet you need to follow based on your age on daily basis? Do you know when does your health insurance expire? Yes, we have thought of it and chosen to develop an application about all the health issues that occur in our daily routine. We also thought of implementing the approximate cost for the disease treatment required.

2.2 Significance/Uniqueness

- Currently, there are many applications that use to monitor the health conditions. But in our application we are integrating all the features in a single application where the user can even set a reminder for his regular pills, get notified about the health insurance expiration and even book an appointment with the nearby doctor for his regular check-ups. The highlight of the project is even a diet plan can be suggested based on the health conditions of the user.

2.3 Objectives

- The objective is to develop a hybrid application where in the user can login and enhance his health experience using the features built in. Since we are dealing with health it makes apparent that we should develop an appealing UI which grabs user attention. The application contains initially user login activities which should be secured and we are also giving the user the diet plan which should be accurate and any wrong suggestions may misguide them. Even the user must be perfectly satisfied with the services provided by the application.

2.4 System Features

- Ability to login the application securely with user information.
- To know about the user health conditions(if prescribed)
- Suggesting the user the best diet in regular basis and even allowing the user to record his weight manually on regular basis.

- To calculate his BMI which is a very useful factor for an individual.
- Identifying the user's health insurance expiration based on his visa type(mainly for students) .

3. Related Work

- **1upHealth's** provider application helps aggregate patient data from external systems. Using a centralized platform, providers can view data sources that patients have connected via the 1upHealth patient application. A patient timeline shows demographic, medication, lab, condition and history information.
- **AirStrip** aims to improve healthcare delivery with mobile interoperability solutions that connect clinicians and patients across geographic, technology and workflow boundaries. The solutions provide the engagement, collaboration and insight capabilities for caregivers and health systems to provide patient-centered care.
- **Medication medisafe remainder** is an app that can help manage numerous people's medications thanks to multiple profiles.

4. Backup Project

- **Project 1:** The backup idea is implementing a **Smart-Bank**. The motivation of this idea is to introduce an application which is used to make all transactions using QR code. The QR code gets generated for each and every transaction. The main functionalities include creating secured account, maintaining balance, generating QR code for requested amount, deducting the amount once the purchase is success, also transferring amount to friends/family.
- **Project 2:** The backup idea is implementing a **Word Magic** application. "Word Magic" is a hybrid application with the main idea to offer image based learning of vocabulary which is more easy and efficient. Our objective is to build a game combined with hint images and words which helps users to expand their knowledge in vocabulary. In turn, this also helps to users learn a new language which is a very good use of our application.

5. Bibliography

<https://www.healthdatamanagement.com/list/20-notable-apps-for-provider-organizations>

<https://www.healthline.com/health/best-medication-reminders>

<https://www.healthcare-informatics.com/article/six-toughest-policy-issues>