Group 4

Software Engineering - E

Abstract

An interactive web application that intends to help students in seeking admissions, scholarships and other opportunities.

edutative

Detailed Proposal

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# Abstract

Edutative is an interactive web application that intends to help students in seeking admissions, scholarships and other opportunities. The aim is to make the transition from high school to universities smooth, seamless and fun. The purpose of this proposal is to present an overview on how the website of the platform could be redesigned as asked by our client, to present a better interaction for users and accommodating more features the project currently has. The process adopted for redesigning this software is spiral as the website requirements are prone to change. Attached are the team details and the roles they will be taking, along with the deadlines of the intended tasks.

# Client Details

Hassan Shahid is an entrepreneur and a LUMS Alumni. He is a founder of a successful startup named Kickstart. In the next couple of years, Hassan hopes to expand his vision by opening Kickstart’s offices in all the major cities of Pakistan with all major startups utilizing its services to transform their ambitions into realities. Besides managing Kickstart, Hassan is also engaged in working on ‘Edutative’ which is collaborating with 40 top universities in Pakistan to create a forum where students could easily look for solutions in their respective field of study which would help them prepare efficiently along with regular tracking of their progress.

# Problem Statement

According to a study conducted by NEMIS (National Education Management Information System), the total enrolment of students at higher secondary schools is 1.246 million. That means about a million confused students unsure about the major they want to pursue and the appropriate university for that. The confusion leads to frustration, disorder, and rushed decisions about one’s future sometimes transforming into four years of regret.

This is what is being catering by a current platform named Edutative. The website currently presents information about 40 universities to students. Students can compare information, filter universities according to their interests and look at a particular university’s life.

The platform is currently lacking the feature of maintaining online practice of entry tests. The front end of the website needs redesign. Users registering feature and maintaining their profiles is another requirement that the platform currently does not have. We will be catering these issues intending to provide a better platform than the existing one.

# Scope

The scope of the project is to redesign a current platform which would be developed to manage additional functionalities. The additional features include:

## 4.1 Design Goals

### 4.1.1 Guest Features

Become a member through registration process

### 4.1.2 Registered Users

Login to site  
 Manage account  
 Take test  
 See his statistics of previous tests  
 Logout

# Team Profile

Our team comprises of four members:

* Qandeel Mushtaq:   
  Good in gathering requirements and making high level designs.
* Rida Bari:   
  Good at front end development.
* Waqar Ali:   
  Major strength lies in graphic designing and web development.
* Zainab Iftikhar (Team Lead):   
  Strong point is problem solving and coding.

# Feasibility Study

## 6.1 Product

The redesigned product tends to provide registered users with online entry tests and a probability of getting admission into the desired university.

## 6.2 Technical Feasibility

The features are guaranteed to be deployed in the platform, however as the site already is published, it will be difficult to change the whole design of the website, as required by the client.

## 6.3 Economic Feasibility

As the team includes undergraduate students who are redesigning the existing software as a course project, there are not any cost estimates.

## 6.4 Market Research

Currently no existing platform exist that let students prepare for their entry tests. Edutative is the first website aiming at the market online. The existing traditional competition are academies and tution masters.

# Main Features

The existing website presents:

* Information about desired university
* Suggesting Universities according to their interests
* Reminders, alerts, updates and a timeline of their journey
* Search Universities and filter them out
* Compare Universities

We intend to introduce the following functionalities in the platform:

* Prepare for the entrance test exams through online testing system
* Find out probability of securing admission in a certain university
* Apply for admission while sitting at home

# Tools Required

## 8.1 High Level Design

### StarUML

We will need this tool to develop the system high level design.

## 8.2 Low Level Implementation

### NetBeans

The language we will be using is JAVA. The IDE that we have decided to use is NetBeans.

## 8.3 Testing

### Apache Tomcat

A local server, APACHE Tomcat, for the manual testing phase of our software.

For unit testing, we would be using Junit.

## 8.4 Database

### MySQL

A set of papers need to be stored in the back end. For this purpose, we’ll be using MySQL, a database management tool.

# Software Process and Methodology

* Spiral Method

We have chosen spiral model because of its high risk analysis nature. Avoidance of risk and potential errors in later phases of development is enhanced. As the front end in prone to changes, this process would best suit our development cycle. We could focus on the features of the platform in the early stages and work on the front end in the later stages.

# Gantt Chart