Software Requirements Specification

For

Loan Search

Ver. 2.0

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Course: Advanced Software Project

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1 Introduction

This is a group project where we make a website to provide students catered options of their loan needs from a questionnaire. Financial aid advisors can use it too. They can be able to make an account or use as a guest, and the website should return loans that match the options they chose on the questionnaire.

1.1 Purpose

The purpose of this document is to provide an overview of our project to give an understanding of it with further details that could be overlooked from the final product. This will cover what the project does. Later being discussed in the 1.3 Product Scope. As well as who it is intended for, and how it is meant to work. This will later be discussed in 1.4 Intended Audience. As we go along, we continue developing the understanding of our project as the sections go on.

1.2 Document conventions

In general, this document follows the IEEE formatting requirements. Use Arial font size 11, or 12 throughout the document for text. Using italics for comments. Document text is single spaced and kept at the 1” margins.

1.3 Project scope

For our project we are planning to develop a website where students can compare the cost of student loans based on the students' preferences and needs. This idea is loosely based on the price comparison tools a lot of extensions have for shoppers browsing the web. With the rising numbers of student debt and no sight of there being any downfall to it anytime soon this website is to help navigate the process a lot easier for students pursuing to further their education. While the students can look for comparative loans, they will be redirected to the site in which they are available. This site itself will not be able to directly apply to them. It is only a search engine to help filter out the loans that do not fit into the students' needs.

1.4 Intended audience

The intended audience of our project is for Students and Financial advisors, and anyone interested in looking into student loans to further their education. This document will be considering the different aspects for these users to be able to deliver the information in the easiest and most accurate way.

2 Overall description

2.1 Product Overview

This product is intended to work as if it were a coupon extension but it's a website that gives the user a questionnaire to fill out to give them the best matches in loans that can help their search become easier

2.2 Product functionality

Our software's goal is to:

- Provide an easy interface to navigate
- Provide an effective questionnaire for loan search
- Give links to provided Loan matches
- Allow user to make account or use as a guest

2.3 User classes and characteristics

Students and financial advisors would need access to the internet preferably through a browser from a laptop or computer.

The Webmaster would need full access to the loan and accounts database in order to update and maintain the website.

2.4 Dependencies

Since the site will ask the user a survey in the beginning the team KMZ will have to come together to make the survey questions in order to be able to cater the preferences and needs of the user to be a lot more efficient than if they were to search only on google. Since the site will really rely on this survey, they must optimize it to the most efficient manner. In order to provide the easiest to use and most efficient deliverables for the users to interact with.

Another Dependency is the information of loans that is public. Since this site is to make searching for loans easier, we need a good amount of information of loans that will have to be updated fairly often with the changing of loan rates and so on.

2.5 Limitations

- Students will not be able to directly apply, they would have to be redirected.
- This project will not be able to be accessible without an internet connection
- The search that is done by the user will be limited
- Loan Information availability to the public
- Student internet access
- Server bandwidth

3 Specific Requirements

3.1 External interface requirements

3.1.1 User Interfaces

A user will access the webpage via any web browser. On the home screen, the user will see two sections to choose either to proceed as a guest or make an account. Users can click either and will be sent to a questionnaire to search for loan options. The user that clicks on the make account will have an extra section to fill out with their account information. After the questionnaire is filled out it will send the results to match the user with the loans that fit their specific preferences and needs. From there they can look through the results and be redirected to their website in order to start the process of the loan.

3.1.2 Hardware interfaces

Requirements to access LOAN SEARCH, you'll need a basic computer with a screen, keyboard, mouse, and internet connection.

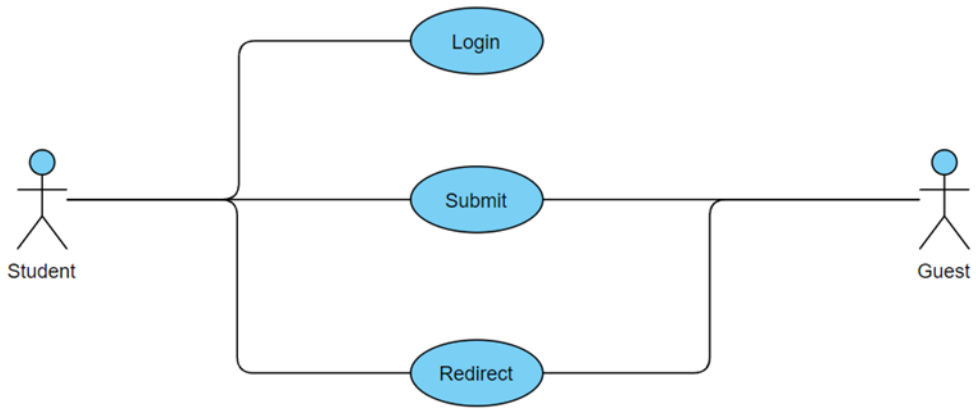
3.1.3 Software interfaces

For this website we utilized HTML, CSS, JS, PHP. HTML was the skeleton, CSS provides the looks, JS provides the button selection, PHP lets the site function running the questionnaire into it to return the matches to the users.

3.2 Functional requirements

In order for the software to function, the data and image files must be located in the correct file structure. The user must be able to find the website from a search engine or access it directly from a URL. The information of the loans will be formatted into a document that'll connect to the site so it can grab the matches that the user fits into.

3.3 Use case model



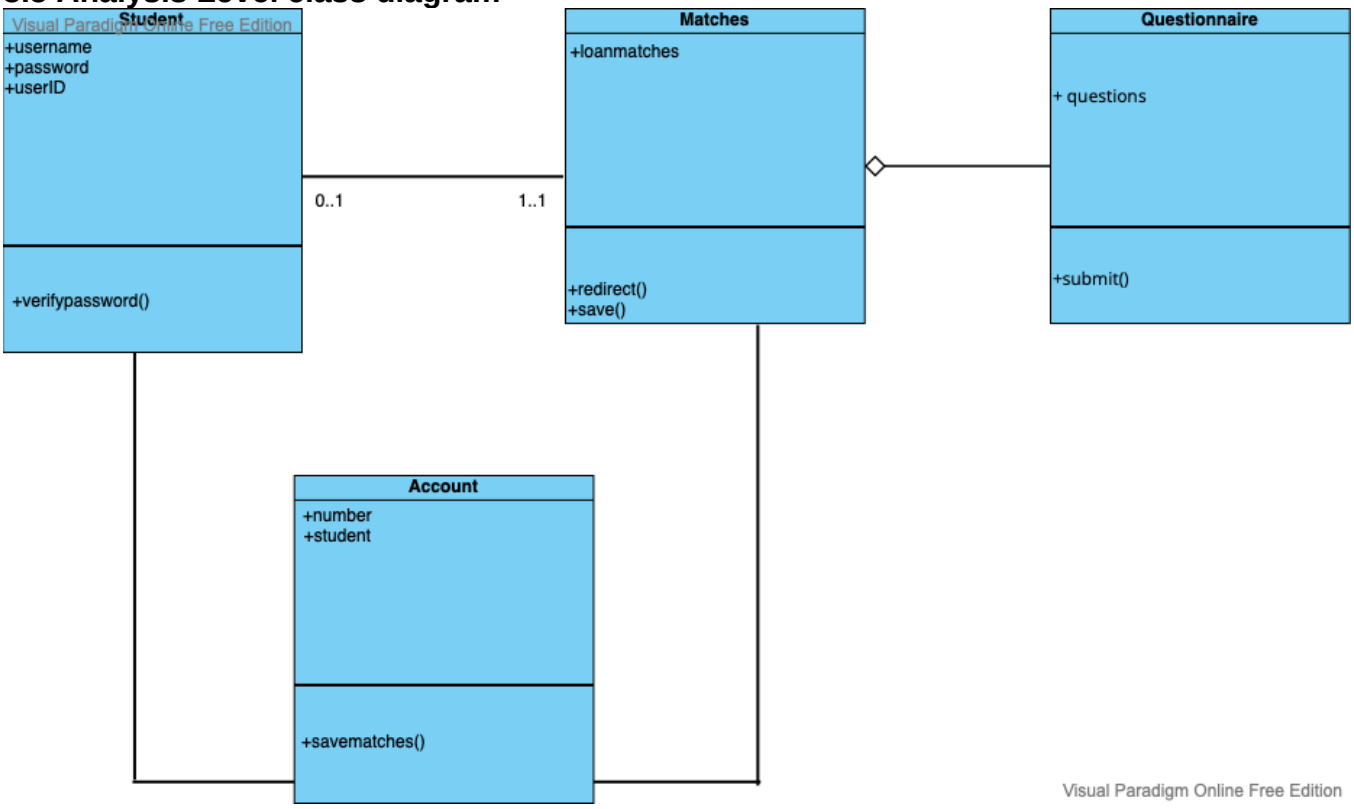
3.1 Descriptions

Use Case Name	Login	
Use Case Description	A user logs in to view their account details	
Actors	Students, Financial aid advisors	
Pre-Condition	Must be connected to the internet so the system can connect to the network	
Post-Condition	After logging in successfully they have account access	
Scenarios	**#**	**Steps**
Actors	**1**	Entering Username & Password
	2	Validating Username & Password
	3	Allowing access to account
Extras	**1a**	Invalid Username/Password: show error message

Use Case Name	Submit Questionnaire	
Use Case Description	A user submits their questionnaire after filling out forum to get loan matches	
Actors	Guest, Students, Financial aid advisors	
Pre-Condition	Must be connected to the internet so the system can connect to the network	
Post-Condition	After filling in forum get loan matches	
Scenarios	**#**	**Steps**
Actors	**1**	Click button to start questionnaire
	2	Show questionnaire
	3	Click button to submit questionnaire
Extras	**2a**	Invalid questionnaire submission: show error message and ask user to fill in required spaces

Use Case Name	Redirect	
Use Case Description	A user can view matches listed and when available they can click a link that will redirect them to the loan website	
Actors	Guest, Students, Financial aid advisors	
Pre-Condition	Must be connected to the internet so the system can connect to the network	
Post-Condition	After matches list, redirect users to loan sites	
Scenarios	**#**	**Steps**
Actors	**1**	Submit Questionnaire
	2	Show list of matches
	3	Click on link to go to loan site of one of the matches

3.5 Analysis Level class diagram



4 Other and Nonfunctional requirements

4.1 Performance requirements

All links should be connected successfully. The questionnaire should be an appropriate length to be able to deduct through so many options. Network connection to get to the users. Load time should not take long. If any errors arrive let the user know immediately.

4.2 Safety requirements and Security requirements

It should be able to save users login info and keep passwords secure. If the user forgets a password, they'll get a password reset and an authentication if it was them that they are the one requesting the password.

The admins in charge of updating the loan information will have designated log in for them to be able to do that separately.

If there is any breach in the network, the website will temporarily go offline and restart, this would not affect the information of the users.