

UnderGrad Assistant Portal

Requirements Specifications



Team 15Z

Members: Staroverov, Singh, Kim J.M., Kim. Jwahoon

Course: Cpts 322 - Software Engineering Principles I

Instructor: Sakire Arslan Ay

TABLE OF CONTENTS

I.	INTRODUCTION.....	2
II.	REQUIREMENTS SPECIFICATION	3
II.1.	CUSTOMER, USERS, AND STAKEHOLDERS	4
II.2.	USER STORIES	4
II.3.	NON-FUNCTIONAL REQUIREMENTS.....	14
III.	USER INTERFACE REQUIREMENTS	15
IV.	REFERENCES.....	20

I. Introduction

This project is named the “Undergrad Assistant Portal”. The primary aim for this collaboration is to aid students and teachers in more comfortably finding teacher’s assistant positions and teacher’s assistants, respectively. This will be done through a program that will help match student TA’s with instructors based on qualifications. This is usually done by hand, but having an algorithm to help sort and match will provide more precise and equivalent pairing between students and teachers. These are the sections of our project:

Section II includes, the requirement specifications. This is the section that includes the details of what the program includes, such as, having log in features, storing extra data, editability, etc. This is mainly to describe some of the smaller functionalities of the project.

Section II.1 includes, customer, users, and stakeholders. This is the section that describes who this project is intended for and who has ownership of the product and its ideas.

Section II.2 includes, use cases. This is the section that includes the possible uses of the application on how the steps will be carried out briefly. It is meant to help identify and understand the possible uses of the program.

Section II.3 includes the Non-Functional Requirements. This section includes the attributes that our project contains. These attributes include response time, processing time, availability, security, and more.

Section III includes, User Interface Requirements. This section includes descriptions on how the user interface will be designed and used including the graphical user interface for the user. This section will also include illustrations of what our project interface will look like.

Section IV, includes References. This section is the source of our information, it will be where the citations for all of our references will be written.

Document Revision History

Rev 1.0 <10/03/2018> <requirement specifications,Cases, stakeholders and customers>
Rev 1.1 <10/05/2018> <intergrated logo and table of contents>
Rev 1.2 <10/07/2018> <introduction and requirments>
Rev 1.3 <10/08/2018> <Finishing edits>

II. Requirements Specification

The following is a list of feature requirements for this product:

- Allow users to login with username and password.
- Allow users to enter contact information (name, last name, WSU ID, email, phone).
- Allow students to create a student account with WSU email as username and set their own password.
- Allow students to enter additional information such as major, GPA, expected graduation date, and prior TA experience.
- Allow students to enter courses they want to TA by entering the course number, grade received, year and semester they completed the course, year and semester they want to TA, whether they served as a TA for this course before.
- Allow students to add and remove courses to/from their list of preferred courses.
- Allow Instructors to create Instructor accounts with their WSU email as username and set their own passwords.
- Display a list of all Computer Science courses to instructors.
- Allow instructors to select a list of courses they will teach during a semester where Lab sections are treated as separate courses.
- Display a list of students who have applied for TAs (indicating whether they have been assigned a course) to instructors.
- Allow Instructors to assign students who are not assigned a course to one of their courses.
- Allow Instructors to remove students from one of their courses.

II.1. Customer, Users, and Stakeholders

The primary customer for this project is Professor Sakire Arslan Ay. The stakeholders include the customer, as previously mentioned, and the users as they will be the ones benefiting from using this project. The primary users for this project will be Computer Science students and teaching faculty across all Washington State University campuses.

II.2. Use Cases

Use Case #1

Name	Create
Users	All Users
Rationale	When a new user enters the website, they will need to create an account with their WSU information and input any other information.
Triggers	Select the “create” option
Preconditions	Load the home page correctly.
Actions	<ol style="list-style-type: none">1. The user shows that they want to create an account.2. Enter WSU id number and chosen password.3. Enter additional User info such as GPA, Experience, Major, graduation date,contact info.4. The account is created and the website redirects the user to the main page.
Postconditions	There are no preconditions for this. This is the first step.
Acceptance Tests	Make sure that the username hasn't been used before. If it has then the account exists.
Iteration	First

Use case # 2

Name	Login
Users	All Users
Rationale	When entering the webpage, users may want to login to access their account information or make changes to their account.
Triggers	The user selects the “Login” option
Preconditions	The webpage is loaded. The User has already created an Account before.
Actions	<ol style="list-style-type: none">1. The user indicates that they want to “Login”2. The webpage requests the user’s Username and Password3. The user inputs their Username and Password4. The webpage gives them access to their account
Postconditions	The User is given access to their account, or their login has been denied.
Acceptance Tests	Make sure Login gives access to the correct account
Iteration	First.

Use Case #3

Name	Search Courses
Users	All Users
Rationale	After the Student creates an account, they will need to search for classes they want to TA
Triggers	The user selects “ search” option
Preconditions	A student account is successfully created and correctly log in.
Actions	<ol style="list-style-type: none">1. The student indicates they want to search for available courses.2. Website requests student to input some data:<ol style="list-style-type: none">a. Courses interested in.b. The grade received in those courses.c. Date of completion for the course.3. The website searches for available courses.
Postconditions	The student is given a list of available courses or a fail message that indicates that the courses don't exist.
Acceptance Tests	Make sure that the course exists and is still available.
Iteration	Second

Use Case #4

Name	Post a TA position
Users	Instructors
Rationale	The instructor will need to post a TA job position on the website where a student will search for it.
Triggers	Select the “post” option
Preconditions	Must have created an account successfully and log in. Webpage must be loaded correctly and Instructor must have requested to post a job.
Actions	<ol style="list-style-type: none">1. The instructor user must request to post a position.2. Instructor inputs requirements for a job. (EX: Experience, grade, description of the job)3. The website gathers the information and creates a post.
Postconditions	Must fill out all the input area in the form.
Acceptance Tests	Make sure that all the inputs lines in the form have been filled out.
Iteration	Second

Use Case #5

Name	Enter Contact Information
Users	All Users
Rationale	Users may want to enter their contact information so that other users can communicate with them
Triggers	The user selects “Update information” option
Preconditions	The user has successfully created an account. The user has successfully logged into their account. The webpage has loaded correctly.
Actions	<ol style="list-style-type: none">1. User indicated that they want to update account information2. Webpage requests user’s first name, last name, WSU ID, email, and phone number3. The user enters chosen contact information4. Webpage updates and saves the user’s account contact information
Postconditions	The new contact information is saved to the user’s account
Acceptance Tests	Make sure the information has been correctly saved to each corresponding category (i.e. Phone number, email)
Iteration	First

Use Case #6

Name	Enter Student Information
Users	Students
Rationale	Students may need to enter student-specific information (i.e. GPA, graduation date, prior TA experience, Grade received, etc.) to provide additional information for faculty to use to select the best TA's
Triggers	Student select "Add additional information" option
Preconditions	The student has already created an account. The student is logged into their account. The webpage has completely loaded correctly.
Actions	<ol style="list-style-type: none">1. A student selects to enter additional information2. Webpage requests student to enter their GPA, Graduation date, Prior TA experience, prior grades received in courses3. A student enters requested information4. Webpage updates and saves the student's additional account information
Postconditions	The student information entered has been saved to their account.
Acceptance Tests	The information was saved to the student's account. The information was saved in the correct category of their account.
Iteration	First

Use Case #7

Name	Awaiting Status
Users	students
Rationale	After a student applies for a TA position. They wait to see the result of their application.
Triggers	A User selects the status option
Preconditions	The student must have an account and the student must have applied for the job
Actions	The user clicks on the status option and it will display the status information for each application.
Postconditions	If the position is offered the student must respond within a given time frame.
Acceptance Tests	Make sure the user actually applied for the position.
Iteration	Third

Use Case #8

Name	Instructor assigns TA to course
Users	All users
Rationale	After the instructor looks over the applications, he/she chooses a TA
Triggers	Notifications appear in the message board
Preconditions	Must have submitted an application.
Actions	<ol style="list-style-type: none">1. Notifies the Applicant of the instructor's decision.2. Student Responses
Postconditions	Applicant must respond to an invitation to TA
Acceptance Tests	The student must be linked to the position and the instructor's message board.
Iteration	three

Use Case #9

Name	Instructor and TA message board
Users	All Users
Rationale	Communications line must be created between TA and instructors.
Triggers	The user selects the message board option.
Preconditions	Must be a TA to a course
Actions	<ol style="list-style-type: none">1. The message board is loaded by website.2. The user sends a message and reads message3. Update the message board with the changes.
Postconditions	A user must view messages before creating a message.
Acceptance Tests	Messages must be posted on the message board
Iteration	forth

Use Case #10

Name	Instructor removes TA from course
Users	All Users
Rationale	After the semester is over the instructor must remove the TA from the course. Or if the TA is fired.
Triggers	Instructors selects the remove option
Preconditions	Semester must end or instructor account must have forced a removal.
Actions	<ol style="list-style-type: none">1. Instructor requests to remove TA2. TA is removed from the course.3. update
Postconditions	TA must be removed for the course
Acceptance Tests	Verify that the TA was removed from the course
Iteration	forth

II.3. Non-Functional Requirements

[Enter a Concise Requirement Name]: [provide a concise description, in clear and easily understandable language to specify the requirement]

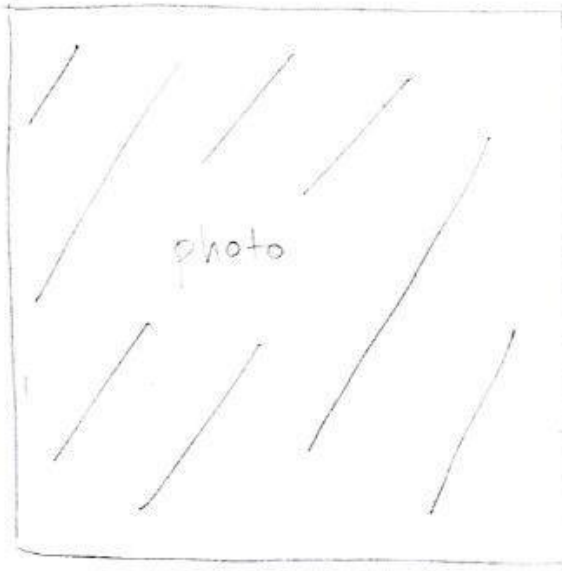
1. Response time: Modified data in a database should be updated for all user accessing it within 2 seconds.
2. Processing times - Functions, calculations, imports, exports within 2 seconds.
3. Accessibility: All the WSU students and instructors are available to use the website.
4. Availability: The website should be designed to run 24 hours.
5. Security: To ensure that personal information in the system are secured and no authorized personnel can access them
6. Password: more than 8 letters, must contain special characters, upper letter, number
7. Recoverability: System data backed up in a timed sequence
8. Interoperability: The website should be designed in such a way that it can work in integration with different OS.
9. Usability: Languages using English only.
10. Maintainability: The website should be designed in such a way that they can serviced and maintained on a periodic basis.

III. User Interface Requirements

Washington State University

School of EECS

Undergrad Assistant Portal



STUDENT

INSTRUCTOR

WSU

UNDERGRAD
ASSISTANT PORTAL

Welcome!

ID

PASSWORD

Login

☒ Stay in login

Forgot ID?

Forgot PW?

Don't have an account? Sign up

Student Sign up	Course Preference
Preferred Course number (ex. CPE 121)	List of preferred courses <input type="checkbox"/> _____ <input type="checkbox"/> _____
When you took this course GPA _____ Year _____ Semester _____	
Apply for TAship Year _____ Semester _____	
Have you served as TA for this course? <input type="checkbox"/> Yes <input type="checkbox"/> NO	
<input type="button" value="Add"/>	
<input type="button" value="Register"/>	

Instructor Sign up	Contact info
First name _____ Last name _____	
WSU email address _____	
Password _____	
WSU ID number _____	
email address _____	
Mobile phone number _____	
<input type="button" value="Continue"/>	

Instructor Sign up


Courses

All CptS courses in WSU (Fall 2018)

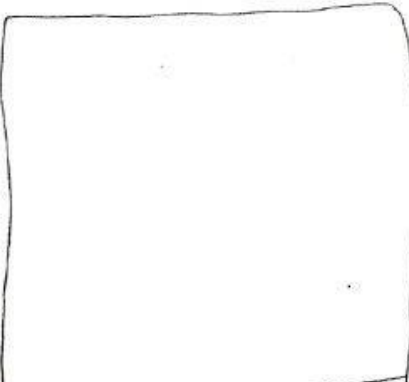
100	<input type="checkbox"/> 111 Introduction to Computer programming ▫ Lab 1 ▫ Lab 2 ...
200	<input type="checkbox"/> 115 Introduction to Analytics ▫ Lab 1 ▫ Lab 2 ...
300	<input type="checkbox"/> 121 Program Design and Development C/C++ ▫ Lab 1 ▫ Lab 2 ...
400	
500	

Select the courses you teach currently.

Register

 Washington State University
 School of EECS

Undergrad Assistant Portal
 Logged on as: Junghoon Kim



Student photo

Welcome Junghoon Kim

ID 11416517

List of preferred course

<input type="checkbox"/> CptS 121 Program Design and ...	<input checked="" type="checkbox"/> Assigned
<input type="checkbox"/> CptS 122 ...	<input type="checkbox"/> Waiting

Add

Edit

Remove

Washington State University
School of EECS

Undergrad Assistant Portal
Logged in as: Juntan Kim

Instructor photo
Welcome Juntan Kim
ID 11416517

Courses

☐ Cpts 121

☐ Cpts 223

Cpts 121 Program Design

Apprentice

<input type="checkbox"/> Joe Min Kim	<input checked="" type="checkbox"/> Assigned
<input type="checkbox"/> Staroverov	<input type="checkbox"/> Pending
<input type="checkbox"/> Singh	<input type="checkbox"/> Pending

IV. References