# BigDaddy.com

## **Requirements Specifications**



## BigDaddy

Puthypor Sengkeo

Nick Lamos

Daniel Chia

Course: CptS 322 - Software Engineering Principles I

Instructor: Sakire Arslan Ay

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### I. Introduction

The school of EECS at WSU has been recruiting undergraduate teaching assistants, who show interest in teaching assistantship, for introductory level courses and lab sections. This process has been carried out mostly manually, which is a very tedious process and time consuming for the recruiters. The aim of this project is to create a web application that allows students to enter their contact information and course preferences for teaching assistantships, and allows instructors to choose their teaching assistants among the students who showed interest in their courses.

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#### **Document Revision History**

Rev 0.0 2019-10-07 Initial Version

## **II. Requirements Specification**

The application will have two pages; a "student page" and an "instructor page".

On the student page, a student user can:

- 1. Create a student account and set the account password (user name should be the WSU email)
- 2. Login with username and password
- 3. Enter contact information (name, last name, WSU ID, email, phone)
- 4. Enter additional information (major, cumulative GPA, expected graduation date, whether s/he served as a TA before)
- 5. Enter course preferences for the TAship. A student can specify more than one course for her/his preferences. For each course, the student should enter:
  - a. The course number (i.e. CptS 121)
  - b. The grade s/he earned when s/he took the course
  - c. The year and semester s/he took the course
  - d. The year and semester s/he applies for TAship
  - e. Whether s/he served as a TA for this course before (yes/no)

Student users can add/remove courses to/from their list of preferred courses

6. Save the entered information

On the instructor page, a faculty user can:

- Create an instructor account and set the account password (user name should be the WSU email)
- 2. Login with username and password
- 3. Enter contact information (name, last name, WSU ID, email, phone)
- 4. Enter the courses s/he teaches currently. Of course an instructor can teach more than one course and/or lab section during a semester. (If a particular course has more than one lab

- section, each of those sections should be entered as a separate course. For example: CptS121-Lab1, CptS121-Lab2...etc.)
- 5. See the list of students who applied for TAship. The list should show whether the students have already assigned to a course.
- 6. The instructor can select a student (who is not assigned to a course yet) and assign it to one of the courses/labs s/he teaches. S/he may also remove the current TA assignments for his courses/labs.

## III. Customer, Users, and Stakeholders

**Regular User:** Is responsible for applying to Teaching Assistant positions.

- a. Search for class or lab
- b. Apply for Teaching Assistant (TA) position
- c. Accept/Decline offer for TA position
- d. View class schedule, syllabus and other information

**Administrator:** Is responsible for assigning and approving a Teaching Assistant to a class or lab.

- a. Create open Teaching Assistant position for class/lab
- b. Review applications
- c. Approve or Deny application
- d. Upload class schedule, syllabus or other documents

### IV. Use Cases

#### Use case # 1

Name	Create open Teaching Assistant (TA) position
Users	Administrator
Rationale	To allow Administrator to communicate to regular users what TA positons are available
Triggers	User creates TA positons
Preconditions	Class/lab exists
Actions	System will prompt the user to input options for fields such as GPA requirements or previous class grades Form box will be created to display open position and allow regular users to

	apply for TA position
Postconditions	Administrator interface will display open TA position and list of applicants
	Regular User interface will display form box to apply for open position as well as a list of requirements
Acceptance Test	Form box with administrator input details exists after creation Regular user interface displays form box
Iteration	1st Iteration

### Use case # 2

Name	Approve or Deny application
Users	Administrator
Rationale	Allows administrator to choose and assign TAs for a class/lab
Triggers	Administrator selects a class/lab details
Preconditions	Class/lab exists and at least one regular user has submitted an application
Actions	System will display a list of applicants and give the option to approve or deny an applicant System will update application status from pending to either approved or denied on the regular user interface
Postconditions	Administrator interface will display list of approved TAs Regular User interface will display either approved or denied application
Acceptance Test	System updates both the administrator and regular user interfaces
Iteration	1st Iteration

### Use case #3

Name	Accept/Decline offer for TA position
Users	Regular user
Rationale	To allow regular user to accept or decline an offer for TA positon

Triggers	Administrator approves or denies TA application
Preconditions	Class/lab exists, administrator has approved or denied application for TA position
Actions	System will register regular user input store it and update the class/lab to either show a user that has accepted a position or remove a user from the class/lab if the user declined the position
Postconditions	Administrator interface will display list of regular users that have accepted the TA position  Regular User interface will display confirmation of selection (accept/decline)
Acceptance Test	System outputs correct recorded data (determined by what the regular user inputs (accept/decline offer))
Iteration	2nd Iteration

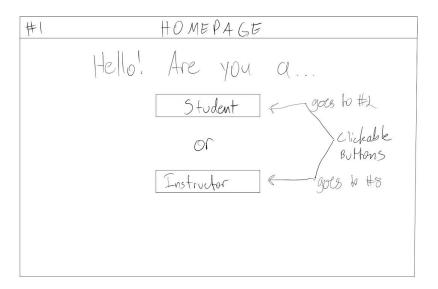
### Use case #4

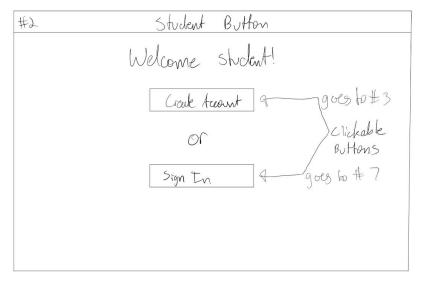
Name	Upload Documents
Users	Administrator and Regular user
Rationale	To allow administrator and/or regular user to upload and/or view documents related to a specific class such as syllabus, schedules etc
Triggers	Administrator/Regular user selects a class/lab
Preconditions	Class/lab exists, regular user has access to selected class/lab
Actions	System will prompt to choose documents to be uploaded System will store documents in database System will display a list of available documents for download
Postconditions	Administrator interface will display list of documents
	Regular User interface will display list of documents
Acceptance Test	System shows documents exists after successful upload
Iteration	2nd Iteration

## V. Non-Functional Requirements

- **1.** Performance Requirements: Making sure the site runs fast and smooth with good response and processing time.
- 2. Interface Requirements: Having all elements of our website easy to find and laid out in a clear manner.
- **3.** Security Requirements: Encrypting username and passwords so an intruder would be unable to get in and expose our customers sensitive data.
- **4.** Maintainability Requirements: Being able to easily upgrade our website and make changes in a reliable way to keep it free from bugs.

## **VI. User Interface Requirements**





#3 Studient Create Account Button
First name:
Last name:
WSU ID:
Email: Stept fields
Phone:
Major:
GPA:
Expected Graduation Date: Month Year & options
Have you been a TA before? : [] Yes [] No theh boxes
NEXT 8 hutton

#4	Student Creak toward Newt Button
Course	Pretrevees & Title
Course n	wher (ex. Cpts 121): Extent field
Grade	or the course: A exprion
Year an	Sembler the was was taken. 2019 Fall 7-both option
Year amo	Semester you want to be aTA: 2019 Fall 7-bo
Hove ,	on been at A for this class before: Dyes DW & check
	Add Another SAVE
	often to save current in boundon to button to save current
	iser, then chear all fields data to user

#5 Student Creak treat Save Button
Thank you so much for applying
(shdent name)
An instructor will reach out to you shortly.
Go to Auant Pass & button (goes to #6)

#6 Student Aug	nt Pave
Welcome back [shdent naw	ne)
Courses you've applied to:	Apply for another aves.?
(list courses here)	APPLY
	button to take them to the account creation page
e g = a	(# 4)

#7	Studen Sign In Button
	Phelese Sign M.
	Email: Stept fields Password:
	Sign In + button (goes to #6)

#8	Instructor Button
	Welcome instructor!
	Create Account of gres to 49
	Or Clickable Buttons
	Sign In goes to #11

#9	Instructor	Create	Account	Button
First name: [ Last name: [ WSU ID: [ Email: [ Em		Text	fields	
Phone:				
				NEXT 8-button

#10 Instructor Create,	treand Nest Bilton
Courses you teach & Til	He
Course number (ex. CptS 121):	= test field
Lab number (If applicable) [ 8	- text add
Add Inother button to save wrent in boundon to user, then does all fields	SAVE  button to save curent data to user (300) to #12)

#11	Instructor Sign In Button
	Plelese Sign in!
	Email: Stept fields Password: Stept fields
	Sign In & button (goes to #12)

#12	Instructur &	trional Pare
Welcome		name)
Courses you	e teent	Sebletel course!
	- Clist courses here	Students applying for TAI
	with a select	Schelled student! Lists all in to about student (Major, 6124, etc.)
	out ton)	(175t of students to be your TA?
• 1		- Select bufform) a Yes a No «

#13	Instructur	Student Chosen Pase
Circut	You have	Chosen (sholat name)
to be	your TA for	(class)
	UNDO	SAVE
	Student from TA (goes back to #125)	Stydent as TA (goes back to #12)