



USE CASE DOCUMENT
CLASS DEPENDENCY

WASHINGTON STATE UNIVERSITY
150 SE SPRING ST
PULLMAN, WA 99163

03/04/2024





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INTRODUCTION

These Use Cases has been developed for Washington State University students preparing to take classes. These Use Cases are based on the design team's gathering of business and functional area requirements. This web application will replace the time intensive task of signing up for classes for students. Our team has identified business needs for reducing the duration it takes to sign up for classes to help manage signing up for the right classes in a reasonable time.

Use Case Name: **Find Classes for Next Semester**

The first Use Case for this application is for the user. The user will navigate to this webpage and select what their major is and be able to see all relevant information regarding what classes they must take next. This will take them to the next page that will display their Monday-Friday schedule based on the currently selected classes. Next to this display will have a dynamic graph that shows the prerequisite dependency between the classes that they must take.

Next this application will allow the user to select classes that were previously taken and will dynamically update and display which classes the user can take. In this Use Case, the user will be able to navigate through the dynamic tree and view all the classes. Finally, the user will be able to select classes they would like to take in the selected semester. These selected classes will populate into the class scheduler next to the dependency graph. This Use Case will also include the option to deselect classes and select other classes within the graph dependency.

Use Case Name: **Administrator**

The last Use Case is for the Administrator. The Administrator will be able to sign into the web application and update and change parts of the web application. This is for any bugs that are encountered or any updated that should be pushed. The Administrator will also have access to the database and view all analytics and relevant data about the website.

USE CASE

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|--------------------------|--------------------------------|----------------------------|---------------------------------|
| Name of Use Case: | Find Classes for Next Semester | | |
| Created By: | WSU Web Dev Team | Last Updated By: | J. Ibarra, F. Trader, D. Takada |
| Date Created: | 3/05/2024 | Last Revision Date: | 3/05/2024 |
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|---------------------------|---|
| Description: | User navigates to webpage and selects their major they would like to at classes for. Then they can select which classes they have already taken. Finally, page will display which classes they may take and once the user selects a class, the class is populated on the class scheduler. |
| Actors: | WSU Web Dev Team, WSU student |
| Preconditions: | <ol style="list-style-type: none">1. User must navigate to webpage.2. Web server must be running for post and get requests. |
| Postconditions: | <ol style="list-style-type: none">1. User is navigated to the next webpage that allows for class selection and information on classes. |
| Flow: | <ol style="list-style-type: none">1. User navigates to webpage.2. Users select their major3. User selects which semester they would like to look at.4. User submits page5. Webpage reloads and displays all relevant information6. Users select classes they have already taken.7. Webpage updates based on user input.8. Users select classes they would like to take for upcoming semester.9. Webpage updates based on classes selected and populates class schedule. |
| Alternative Flows: | <ol style="list-style-type: none">1. In step 2 of the normal flow, if the major selected by the use does not exist<ol style="list-style-type: none">1. Webpage sends an alert to user informing them that the selected major does not exist.2. In step 3 of the normal flow if the semester selected by the user does not exist or if the database does not have information on that semester yet.<ol style="list-style-type: none">1. Webpage sends an alert to users informing them that the selected semester is not yet available. |
| Exceptions: | <ol style="list-style-type: none">2. In any of the steps of the normal flow, if the webpage post or get requests causes an error<ol style="list-style-type: none">1. The webpage tracks the error and logs all information that might have caused it.2. Use Case resumes on next step of normal flow |
| Requirements: | <p>The following requirements must be met before execution of the use case</p> <ol style="list-style-type: none">1. User must navigate onto the webpage2. Web server must be running for post and get requests. |



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|---------------------------|---|----------------------------|---------------------------------|
| Name of Use Case: | Administrator | | |
| Created By: | WSU Web Dev Team | Last Updated By: | J. Ibarra, F. Trader, D. Takada |
| Date Created: | 3/05/2024 | Last Revision Date: | 3/05/2024 |
| | | | |
| Description: | Administrator navigates to webpage and logs in. Administrator is forwarded to webpage that displays all webpage metrics and relevant information | | |
| Actors: | WSU Web Dev Team, WSU student | | |
| Preconditions: | <ol style="list-style-type: none">1. Administrator must navigate to webpage.2. Web server must be running for post and get requests. | | |
| Postconditions: | <ol style="list-style-type: none">2. Administrator is navigated to the next webpage that allows for updating webpage along with relevant information about this website. | | |
| Flow: | <ol style="list-style-type: none">1. Administrator navigates to webpage.2. Administrator logs in3. Administrator is forwarded to administrator page4. Administrator updates webpage | | |
| Alternative Flows: | <ol style="list-style-type: none">1. In step 2 of the normal flow, if the login information does not match.<ol style="list-style-type: none">1. Webpage sends an alert to inform the password and username is incorrect.2. In step 4 of the normal flow if the Administrator attempts to update the webpage but there are conflicts<ol style="list-style-type: none">1. Webpage sends an alert to the administrator informing them that the selected update has conflicts.2. Admin resolves the issues3. Admin recommits updates | | |
| Exceptions: | <ol style="list-style-type: none">1. In any of the steps of the normal flow, if the webpage post or get requests causes an error<ol style="list-style-type: none">1. The webpage tracks the error and logs all information that might have caused it.2. Use Case resumes on next step of normal flow | | |
| Requirements: | The following requirements must be met before execution of the use case <ol style="list-style-type: none">3. Admin must navigate onto the webpage.4. Web server must be running for post and get requests. | | |



SPONSOR ACCEPTANCE

Approved by the Project Sponsor:

Subu Kandaswamy
Professor at Washington State University

Date: _____

