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Context Diagram

The following figure illustrates the actors and use cases present in the application.

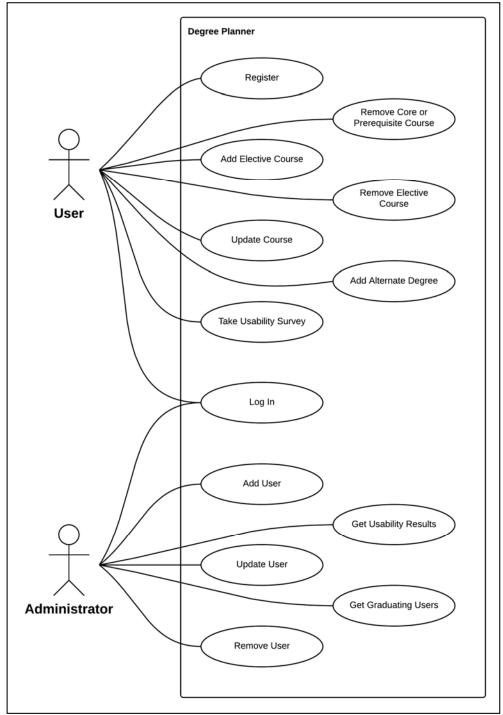


Figure 1 Degree Planner Context Diagram

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UTD Degree Planner Actor Descriptions

- 1. **Student** a person who is registered to take courses at The University of Texas at Dallas.
- 2. **Administrator** an employee of The University of Texas at Dallas who manages users in the system.

UTD Degree Planner Use Case Descriptions

- 1. **Register** a user creates an account in the application.
- 2. **Log In** an existing user wishes to view or edit their degree plan.
- 3. **Add Elective Course** an existing user adds a new course to their degree plan.
- 4. **Update Course** an existing user changes the semester and/or grade for a course in their degree plan.
- 5. **Remove Core or Prerequisite Course** an existing user removes a core or prerequisite course from their degree plan.
- 6. **Remove Elective Course** an existing user removes an elective course from their degree plan.
- 7. **Add Alternate Degree** an existing user adds an alternate degree track to their degree plan.
- 8. **Take Usability Survey** an existing user fills out a usability survey about the application.
- 9. **Add User** an administrator user adds a new user account to the application.
- 10. **Update User** an administrator user updates the profile settings for an existing user.
- 11. **Remove User** an administrator user deletes a user from the application.
- 12. **Get Usability Results** an administrator user views usability survey results.
- 13. **Get Graduating Users** an administrator user views a list of users eligible for graduation.

Use Case 1: Register

Actor(s)

User

Description

This use case begins when a user wishes to register for this application. This use case ends when the user has successfully registered.

Preconditions

None.

Post conditions

The user is registered in the application and logged into the system.

Normal Course of Events

- 1. **The use case begins** when the user starts the application.
- 2. The application prompts the user to enter a username and password.
- 3. The user clicks 'Register' link.
- 4. The application prompts the user to enter the following information:
 - a. A username.
 - b. A password.
 - c. Confirm password.
 - d. A starting semester.
 - e. An expected ending semester.
 - f. A degree track.
 - g. All admission prerequisite courses.
- 5. The user enters the information above.
- 6. The application verifies that the username is unique and that the information entered is valid.
- 7. The use case ends.

- Missing information
- Username already registered
- User cancels registration
- User leaves application

Use Case 2: Log In

Actor(s)

User Administrator

Description

This use case begins when a user wishes to log into the application. Every action, save the register use case, requires the user to log in. The use case ends once the user has successfully authenticated in the system.

Preconditions

The user has registered an account with the application.

Post conditions

If the use case was successful, the user is now logged into the application.

Normal Course of Events

- 1. **The use case begins** when the user starts the application.
- 2. The application prompts the user to enter a username and password.
- 3. The user enters a username and password.
- 4. The application verifies that this is a valid user.
- 5. The use case ends.

- Bad username
- Bad password
- User is not registered
- User leaves application

Use Case 3: Add Elective Course

Actor(s)

User

Description

This use case begins when a user wishes to add a new elective to their degree plan. The use case ends when the course has been successfully added.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, a new elective course has been added to the users degree plan.

Normal Course of Events

- 1. **The use case begins** when the user wishes to add an elective course to their degree plan.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Add Elective' button.
- 4. The application replaces the button with three dropdowns, one each for: the course to add, the semester the course will be taken, and the grade received.
- 5. The user selects the desired course and optionally enters a semester and grade.
- 6. The user clicks the 'Save' button.
- 7. The application adds the course to the degree plan and updates the screen to reflect the change.
- 8. The use case ends.

Alternative Courses

- User logs out of the application.
- User leaves application.

Alternate Course: User Clicks Delete Button

- 1. **The use case begins** when the user clicks the 'Delete' button.
- 2. The application removes the course options
- 3. The use case ends.

Use Case 4: Update Course

Actor(s)

User

Description

This use case begins when a user wishes to update the semester and/or grade for a course in their degree plan. The use case ends once the information has been successfully saved to the course.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, the selected course semester and/or grade have been updated.

Normal Course of Events

- 1. **The use case begins** when the user wishes to update a course in their degree plan.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Edit' button on the course they wish to update.
- 4. The application replaces the semester and grade values with dropdowns.
- 5. The user selects the new values for one or both the semester and grade.
- 6. The user clicks the 'Save' button.
- 7. The application updates the course information in the degree plan and updates the screen to reflect the changes.
- 8. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 5: Remove Core or Prerequisite Course

Actor(s)

User

Description

This use case begins when a user wishes to remove a core or prerequisite course from the degree plan. The use case ends when the course's semester and grade have been removed from the course.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, the selected core or prerequisite course's semester and grade have been removed.

Normal Course of Events

- 1. **The use case begins** when the user wishes to remove a core or prerequisite course from their degree plan.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Edit' button on the course they wish to update.
- 4. The application replaces the semester and grade values with dropdowns.
- 5. The user clicks the 'Delete' button.
- 6. The application removes the semester and grade information from the selected course and updates the screen to reflect the changes.
- 7. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 6: Remove Elective Course

Actor(s)

User

Description

This use case begins when a user wishes to remove an elective course from their degree plan. The use case ends when the selected course has been removed.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, the selected elective has been removed from the users degree plan.

Normal Course of Events

- 1. **The use case begins** when the user wishes to remove an elective course from their degree plan.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Edit' button on the course they wish to update.
- 4. The application replaces the semester and grade values with dropdowns.
- 5. The user clicks the 'Delete' button.
- 6. The application removes the course from the degree plan and updates the screen to reflect the changes.
- 7. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 7: Add Alternate Degree

Actor(s)

User

Description

This use case begins when a user wishes to add an alternate degree track to their degree plan. The use case ends once the new degree track has been added.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, the selected degree track has been added as an alternate degree plan.

Normal Course of Events

- 1. **The use case begins** when the user wishes to add an alternate degree plan.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Add Alternate Degree Plan' button.
- 4. The application presents a popup with a dropdown of available degree tracks.
- 5. The user selects the desired degree track from the dropdown.
- 6. The user clicks the 'Add Degree' button.
- 7. The application adds the selected degree plan to the user and switches to the new degree plan view.
- 8. The use case ends.

- User logs out of the application.
- User leaves application.
- User clicks 'Add Alternate Degree Plan' again.

Use Case 8: Take Usability Survey

Actor(s)

User

Description

This use case begins when a user wishes to take the usability survey. The use case ends once the user has saved their answers.

Preconditions

A valid user has logged into the application.

Post conditions

If the use case was successful, the user's answers for the survey have been saved to the database.

Normal Course of Events

- 1. **The use case begins** when the user wishes to take the Usability Survey.
- 2. The application presents the current degree plan to the user.
- 3. The user clicks the 'Take Questionnaire' link.
- 4. The application presents the usability questionnaire.
- 5. The user answers the questions.
- 6. The user clicks 'Save & Go Back'.
- 7. The application saves the survey results and returns the user to their degree plan.
- 8. The use case ends.

Alternative Courses

- User logs out of the application.
- User leaves application.

Alternate Course: User Clicks Save & Logout

- 1. **The use case begins** when the user clicks the 'Save & Logout' button.
- 2. The application saves the survey results and logs the user out.
- 3. The application presents the log in screen.
- 4. The use case ends.

Use Case 9: Add User

Actor(s)

Administrator

Description

This use case begins once an administrator user wishes to add a new user to the application. The use case ends once the user has been successfully added.

Preconditions

A valid administrator has logged into the application.

Post conditions

If the use case was successful, a new user has been created in the application and is able to log in.

Normal Course of Events

- 1. **The use case begins** when the administrator wishes to add a new user to the application.
- 2. The application presents the Administrator Dashboard.
- 3. The user clicks the 'Add User' button.
- 4. The application prompts the user to enter the following information:
 - a. A username.
 - b. A password.
 - c. Confirm password.
 - d. A starting semester.
 - e. An expected ending semester.
 - f. A degree track.
 - g. All admission prerequisite courses.
- 5. The user enters the required information above.
- 6. The user clicks the 'Add' button.
- 7. The application adds the user to the application.
- 8. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 10: Update User

Actor(s)

Administrator

Description

This use case begins when an administrator user wishes to update the information for a selected user. The use case ends once the administrator saves the users information.

Preconditions

A valid administrator has logged into the application.

Post conditions

If the use case was successful, the selected user's information is updated in the application.

Normal Course of Events

- 1. **The use case begins** when the administrator wishes to update an existing user in the application.
- 2. The application presents the Administrator Dashboard.
- 3. The user clicks the 'Edit' button on the user they wish to edit.
- 4. The application prompts the user to enter the following information:
 - a. A username.
 - b. A password.
 - c. Confirm password.
 - d. A starting semester.
 - e. An expected ending semester.
 - f. A degree track.
 - g. All admission prerequisite courses.
- 5. The user enters the information they wish to update.
- 6. The user clicks the 'Save button.
- 7. The application saves the new user information to the application.
- 8. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 11: Remove User

Actor(s)

Administrator

Description

This use case begins when an administrator user wishes to remove an existing user from the application. The use case ends once the user has been removed.

Preconditions

A valid administrator has logged into the application.

Post conditions

If the use case was successful, the selected user has been removed from the application.

Normal Course of Events

- 1. **The use case begins** when the administrator wishes to update an existing user in the application.
- 2. The application presents the Administrator Dashboard.
- 3. The user clicks the 'Edit' button on the user they wish to edit.
- 4. The application presents the selected users information in a popup.
- 5. The user clicks the 'Delete' button.
- 6. The application removes the user from the application and updates the user list to reflect the deletion.
- 7. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 12: Get Usability Results

Actor(s)

Administrator

Description

This use case begins when an administrator user wishes to view the summary results for the usability survey. The use case ends once the summary results are shown.

Preconditions

A valid administrator has logged into the application.

Post conditions

If the use case was successful, the summary results of the usability survey are shown.

Normal Course of Events

- 1. **The use case begins** when the administrator wishes to update an existing user in the application.
- 2. The application presents the Administrator Dashboard.
- 3. The user clicks the 'Usability Test Results' link.
- 4. The application presents a summary of all usability surveys.
- 5. The use case ends.

- User logs out of the application.
- User leaves application.

Use Case 13: Get Graduating Users

Actor(s)

Administrator

Description

This use case begins when an administrator user wishes to view a list of users who are eligible for graduation in a specific semester. The use case ends once the list of users is shown.

Preconditions

A valid administrator has logged into the application.

Post conditions

If the use case was successful, a list of users graduating in the selected semester is shown.

Normal Course of Events

- 1. **The use case begins** when the administrator wishes to update an existing user in the application.
- 2. The application presents the Administrator Dashboard.
- 3. The user clicks the 'Graduating Users' link.
- 4. The application presents an empty list of users eligible for graduation.
- 5. The user selects the Graduation Semester from a dropdown list.
- 6. The application populates the list with users eligible to graduate in the selected semester or the next.
- 7. The use case ends.

- User logs out of the application.
- User leaves application.

User Interface

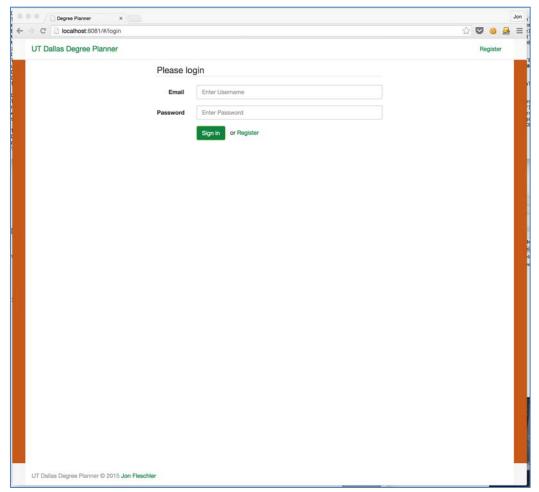


Figure 2. Login Page

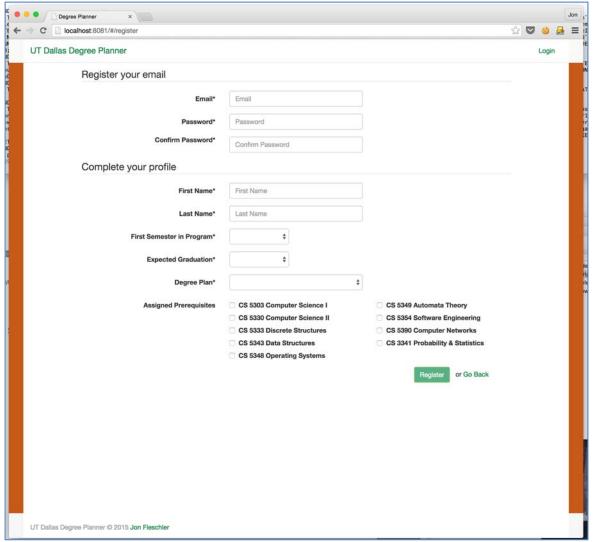


Figure 3. Register Page



Figure 4. Registration Errors

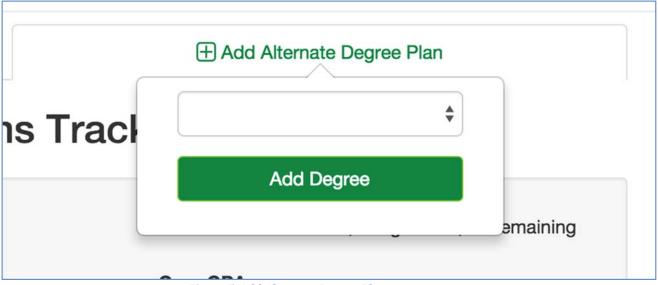


Figure 5. Add Alternate Degree Plan

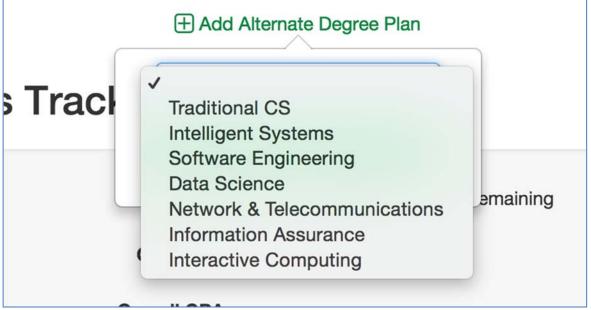


Figure 6. Alternate Degree Plan Options

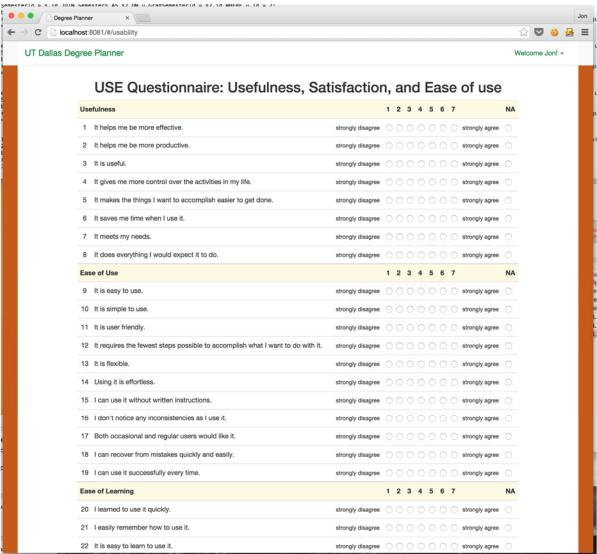


Figure 7. Take Usability Questionnaire

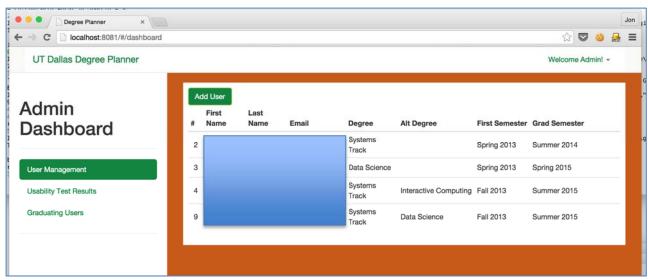


Figure 8. Admin - User Management

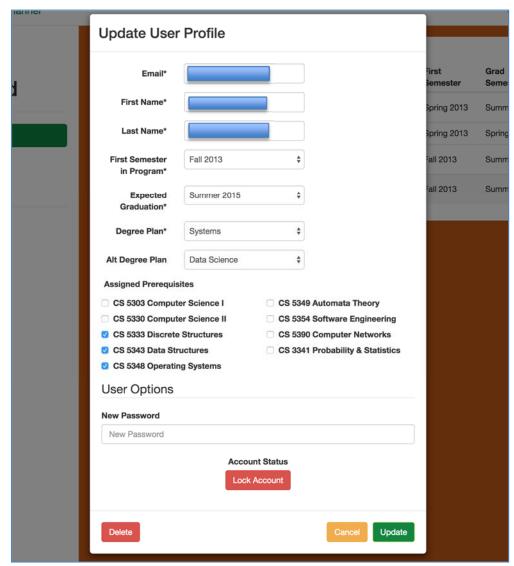


Figure 9. Admin - Update User Profile

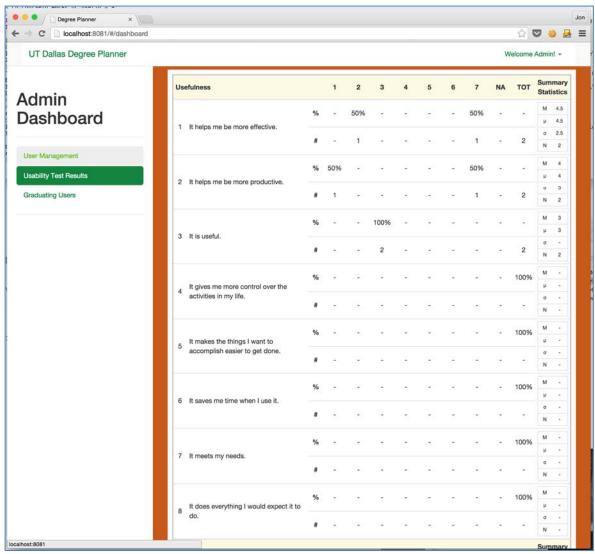


Figure 10. Admin - Usability Results

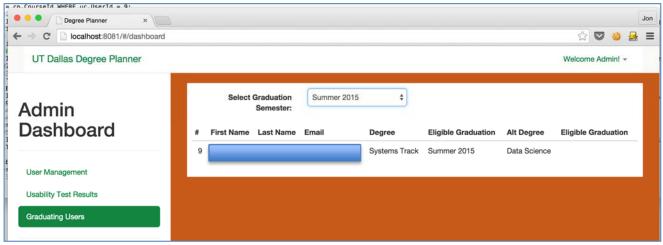


Figure 11. Admin - Graduating Users

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