U1: Log in

Actors: User, Admin, Database

Relationship: includes U2, U3

Abstract: False

Preconditions: User must have account to log-in.

Main Scenario:

* User enters username and password to log in.
* User clicks the “Submit” button.
* System checks data with Database
* Database confirms login and informs CMC that User’s account is of type of user.
* Continue to U2.

Postconditions: User is logged in

Alternative Scenarios:

* User enters invalid credentials:
  + CMC prompts User to re-enter information
* User wishes to clear entered information:
  + User presses “Reset” button
  + CMC clears data fields
* Admin is logging in:
  + Admin enters username and password to log in.
  + Admin clicks the “Submit” button.
  + System checks data with Database.
  + Database confirms login and informs CMC that the account is an Admin.
  + Continue to U3.
* All other User scenarios apply to Admin.

Non-functional requirements: None

U2: View User Menu

Actors: User

Relationship: extended by U4, U5, U6, U19; included by U1

Abstract: True

Preconditions: None

Main Scenario:

* CMC displays options available to User.
* User chooses to Search for Schools.
* Continue to U4.

Postconditions: None

Alternative Scenarios:

* User chooses to Manage Saved Schools.
  + Continue to U5.
* User chooses to Manage User Profile.
  + Continue to U6.
* User chooses to Logout.
  + Continue to U19.

Non-functional requirements: None

U3: View Admin Menu

Actors: Admin

Relationship: extended by U13, U16, U19; included by U1

Abstract: True

Preconditions: None

Main Scenario:

* CMC displays options available to Admin.
* Admin chooses to Manage Universities.
* Continue to U13.

Postconditions: None

Alternative Scenarios:

* User chooses to Manage Users.
  + Continue to U16.
* User chooses to Logout.
  + Continue to U19.

Non-functional requirements: No

U4: Search for Schools

Actors: User

Relationship: extends U2; includes U7

Abstract: False

Preconditions: None

Main Scenario:

* CMC displays search parameter options.
* User enters search parameters.
* Continue to U7.

Postconditions: None

Alternative Scenarios:

* User enters invalid search parameters:
  + CMC informs User and prompts them to re-enter parameters.
* User wishes to clear entered information:
  + User presses “Reset” button
  + CMC clears data fields

Non-functional requirements: None

U5: Manage Saved School

Actors: User, Database

Relationship: extended by U8, U11; extends U2

Abstract: True

Preconditions: User must have one or more schools saved.

Main Scenario:

* CMC retrieves User’s saved schools and displays them to User.
* User selects a school to view by pressing “View” button.

Postconditions: None

Alternative Scenarios:

- User clicks the remove “button”:

- Continue to U11.

Non-functional requirements: None

U6: Manage User Profile

Actors: User, Database

Relationship: extends U2, U3

Abstract: false

Preconditions: none

Main Scenario:

* CMC displays user information, with some fields editable.
* User provides updated user information
* User presses 'Edit User' button.
* CMC sends updated data to Database.

Postconditions: Database contains updated user information.

Other Scenarios:

* User wishes to reset changes they entered:
  + User presses 'Reset' button and CMC reverts all fields to their initial state.
* User enters invalid data:
  + CMC notifies User of invalid data entry and allows User to reenter data

Non-functional requirements: NOT SURE

U7: View Search Results

Actors: User, Database

Relationship: extended by U8, U10; included by U4

Abstract: false

Preconditions: none

Main Scenario:

* CMC retrieves schools matching search (U4) from Database
* CMC displays matching schools to User
* User opts to view school data by pressing 'View' button
* Continue to U8

Postconditions: none

Other Scenarios:

* User chooses to save school by pressing 'Save' button:
  + Continue to U10

Non-functional Requirements: None

U8: View School Data

Actors: User, Database

Relationship: extends U5, U7; extended by U12

Abstract: false

Preconditions: none

Main Scenario:

* CMC retrieves school data and recommended schools from Database
* CMC displays school data and recommended schools to User

Postconditions: none

Other Scenarios:

* User chooses to save a recommended school:
  + continue to U12

Non-functional Requirements: None

U9: Save School

Actors: User, Database

Relationship: generalizes U10, U12

Abstract: true

Preconditions: school is not already saved

Main Scenario:

* User presses 'Save' button associated with a school
* CMC asks Database to add selected school to User's saved schools
* Database adds selected school to User's saved schools

Postconditions: school is saved

Other Scenarios:

* School is already saved
  + CMC notifies User and does not continue with process

Non-functional Requirements: None

U10 Save Searched School

Actors: User, Database

Relationship: extends U7; specializes U9

Abstract: false

Preconditions: see U9

Main Scenario:

* see U9

Postconditions: see U9

Other Scenarios:

* see U9

Non-functional Requirements: None

U11: Remove Saved Schools

Actors: User

Relationship: extends U5

Abstract: False

Precondition: None

Main Scenario:

* User selects school to remove by pressing “Remove” button.
* CMC asks Database to remove selected school from User's saved schools
* Database removes selected school from User's saved schools

Postcondition: school is removed

Other Scenarios: None

Non-functional Requirements: None

U12: Save Recommended School

Actors: User, Database

Abstract: False

Relationship: extends U8, specializes U9

Preconditions: see U9

Main Scenario:

* see U9

Postconditions: see U9

Other Scenarios:

* see U9

Non-functional Requirements: None

U13: Manage Universities

Actors: Admin, Database

Abstract: False

Relationship: extends U3, extended by U14, U15

Preconditions: None

Main Scenario:

* CMC retrieves and displays all universities to Admin.
* Admin chooses to Add a University.
* Continue to U14.

Postconditions: Managed universities

Other Scenarios:

* Admin Chooses the “Edit” button next to a University.
  + Continue to U15

Non-Functional Requirements: None

U14: Add a University

Actors: Admin

Relationship: extends U13

Abstract: False

Preconditions: None

Main Scenario:

* CMC displays university attribute fields to be filled in by Admin.
* Admin inputs information for new university
* Admin presses “Save” button
* CMC sends new university data to Database

Postconditions: University has been saved to Database

Other Scenarios:

* Admin cancels new university creation:
  + Return to U13.
* Admin inputs invalid information:
  + CMC notifies Admin of invalid data entry and allows Admin to reenter data.

Non-functional Requirements: None

U15: Edit a University

Actors: Admin

Relationship: extends U13

Abstract: False

Preconditions: None

Main Scenario:

* CMC displays university attribute fields to be altered by Admin.
* Admin inputs information for university
* Admin presses “Apply Changes” button
* CMC sends university data to Database

Postconditions: University is Edited

Other Scenarios:

* Admin cancels university editing:
  + Return to U13.
* Admin inputs invalid information:
  + CMC notifies Admin of invalid data entry and allows Admin to reenter data.

Non-functional Requirements: None

U16: Manage Users

Actors: Admin, Database

Relationship: extends U3, extended by U17, U18

Abstract: True

Preconditions: None

Main Scenario:

* CMC retrieves and displays all users to Admin.
* Admin chooses to Add a User.
* Continue to U17.

Postconditions: None

Other Scenarios:

* Admin chooses to Edit a User:
  + Continue to U18
* Admin chooses to deactivate a User:
  + Database sets User to inactive.

Non-functional Requirements: None

U17: Add a User

Actors: Admin, Database

Relationship: extends U16

Abstract: False

Preconditions: None

Main Scenario:

* CMC displays User attribute fields to be filled in by Admin.
* Admin inputs information for new User
* Admin presses “Save” button
* CMC sends new User data to Database

Post-conditions: The new user can now access the CMC system.

Other Scenario:

* Admin wishes to clear entered information:
  + Admin presses “Reset” button
  + CMC clears data fields
* Admin inputs invalid information:
  + CMC notifies Admin of invalid data entry and allows Admin to reenter data.

Non-Functional Requirements: Database checks to make sure the username is unique.

U18: Edit User

Actors: Admin, Database

Relationship: extends U16

Abstract: False

Preconditions: None

Main Scenarios:

* CMC displays User attribute fields to be altered in by Admin.
* Admin inputs information for new User
* Admin presses “Save” button
* CMC sends new User data to Database

Postconditions: The user’s information is edited and updated.

Other Scenario:

* Admin wishes to clear entered information:
  + Admin presses “Reset” button
  + CMC clears data fields
* Admin inputs invalid information:
  + CMC notifies Admin of invalid data entry and allows Admin to reenter data.

Non-Functional Requirements: None

U19: Logout

Actors: Admin, User, Database

Relationship: extends U2, U3

Abstract: False

Preconditions: User/Admin must be at either User menu or Admin menu.

Main Scenario:

* User/Admin clicks the “Logout” link.
* Database is alerted, saves what they did and disconnects them from the menus.
* Database sends the User/Admin back to the login screen.

Postconditions: The user/admin is safely logged out.

Other Scenario: None

Non-functional Requirements: None

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