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CS 3704 - Edmison
Fully Dressed Use Cases

Use Case 1) User can create checksheet to keep track of classes

General Characteristics

Author: Pourash Bhandari
Last Update: 02/21/2017
Scope: Pathways Class Builder
Level: User level
Status: Under review

Primary Actor: User
Secondary Actor: System Database
Precondition: User has an account and is logged in
Success Postcondition: The user begins a new checksheet
Failed Postcondition: The checksheet is not created

Main Success Scenario (or basic flow)

- 1) The user clicks on Add Checksheet
- 2) Asks the user for checksheet name
- 3) User puts in checksheet name and hits enter
- 4) Checksheet is created

Extensions or Alternate Flows

- 3a) The checksheet name is already in use
 - 1) Ask user for new name
 - 2) User puts in new name
 - 3) Checksheet is created

Frequency of Occurrence: Occasionally

Use Case 2) User can insert classes into checksheet

General Characteristics

Author: Pourash Bhandari

Last Update: 02/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actor: System Database, HokieSpa

Precondition: The user is logged in and has a checksheet open

Success Postcondition: The class is added

Failed Postcondition: The class is not added

Main Success Scenario (or basic flow)

- 1) The user clicks Add a New Class
- 2) The user is prompted for CRN or Class Name
- 3) The user searches and clicks on the class they would like to add
- 4) The class is added to the checksheet

Extensions or Alternate Flows

- 3a) The class is unavailable
 - 1) The student is unable to add the class

Frequency of Occurrence: Often

Use Case 3) User can remove classes from checksheet

General Characteristics

Author: Pourash Bhandari

Last Update: 02/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actor: System Database

Precondition: The user is logged in and has a class added to a checksheet

Success Postcondition: The class is removed

Failed Postcondition: The class was not removed

Main Success Scenario (or basic flow)

- 1) The user clicks on the class to remove
- 2) The user clicks remove class
- 3) The class is removed

Extensions or Alternate Flows

- 1a) The class is not removed
 - 1) User is directed to try to remove a different class
 - 2) Rejoin normal flow

Frequency of Occurrence: Often

Use Case 4) User can see class location on map

General Characteristics

Author: Pourash Bhandari

Last Update: 02/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: Map Provider, HokieSpa

Precondition: The user has classes added to checksheet

Success Postcondition: The user sees where his classes are

Failed Postcondition: The classes do not appear

Main Success Scenario (or basic flow)

- 1) The user clicks on map view button
- 2) The user is presented with a map of his classes

Extensions or Alternate Flows

- 1a) The user has no classes added
 - 1) A map of tech without classes highlighted are shown

Special Requirements: Map Locations

Frequency of Occurrence: Often

Use Case 5) User can see quickest route between classes

General Characteristics

Author: Justin Hoelscher

Last Update: 2/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: Map Provider, HokieSpa

Stakeholders and Interests:

Precondition: User is logged into the app and has added classes to their schedule

Success Postcondition: A route showing the quickest path is displayed to the user.

Failed Postcondition: Route fails to display, or the map can't load.

Main Success Scenario (or basic flow)

- 1) User opens page displaying map
- 2) Route is drawn on the map as a series of routes and waypoints
- 3) User can scroll and move around the map
- 4) User views route and information about each waypoint
- 5) User closes this screen in the app.

Extensions or Alternate Flows

- 1a) Map Provider fails to connect
 - 1) Map widget tries to reload connection
 - 2) If connection is established, resume normal flow
 - 3) If connection cannot be established, display error message.
- 2a) Route is drawn incorrectly or not to the user's specifications.
 - 1) User can redraw the route manually and see new complete route
 - 2) Alternate routes can be chosen

Special Requirements: User's location (potentially), Map Provider

Use Case 6) User can create different check-sheets for different semesters

General Characteristics

Author: Justin Hoelscher

Last Update: 2/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Stakeholders and Interests:

Precondition: User is logged in to the app, and is on screen allowing editing of check-sheets

Success Postcondition: A new check-sheet for a given semester is created

Failed Postcondition: The check-sheet is not created.

Main Success Scenario (or basic flow)

- 1) User clicks a button to add a new check-sheet.
- 2) User adds at least one class to the check-sheet
- 3) Classes are validated to make sure it doesn't overlap with other classes.
- 4) User saves new check-sheet.
- 5) Success message is displayed.

Extensions or Alternate Flows

- 2a) Class overlaps with another class.
 - 1) Class is not added.
 - 2) Error message is displayed to user.
 - 3) User is returned to normal class adding flow.
- 4a) Checksheet fails to save.
 - 1) Error message is displayed.
 - 2) User is returned to basic overview screen.

Use Case 7) User can export schedule

General Characteristics

Author: Justin Hoelscher

Last Update: 2/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: HokieSpa

Stakeholders and Interests:

Precondition: User has at least one schedule to be exported.

Success Postcondition: Schedule is saved as a specified file type on the user's device.

Failed Postcondition: Schedule fails to download.

Main Success Scenario (or basic flow)

- 1) User navigates to schedule to export.
- 2) User indicates through UI interaction that they want to export the schedule.
- 3) Schedule is packaged as a file.
- 4) File is downloaded to the user's device.

Extensions or Alternate Flows

- 3a) Schedule fails to export.
 - 1) Error message is displayed to user.
 - 2) App offers to re-export schedule.
 - 3) User can try again to rejoin normal flow, or quit.
- 4a) Schedule file doesn't download
 - 1) Error message is displayed to user.
 - 2) App offers to re-download schedule
 - 3) User can try again to rejoin normal flow, or quit.

Use Case 8) User can add alternate stops in between classes (McCommas, Turners, etc)

General Characteristics

Author: Justin Hoelscher

Last Update: 2/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: Map Provider, HokieSpa

Stakeholders and Interests:

Precondition: The user is logged in and on the map view

Success Postcondition: The user is rerouted to the added location in the most efficient way

Failed Postcondition: Alternate stop is not added.

Main Success Scenario (or basic flow)

- 1) User views route associated with an existing schedule (check-sheet)
- 2) User searches for location they want to add to route.
- 3) User indicates where in route stop should be placed.
- 4) Alternate stop is placed in the route in the correct position.
- 5) Surrounding waypoints, times, and directions are recalculated.

Extensions or Alternate Flows

- 2a) User searches for a nonexistent location
 - 1) Error message is displayed.
 - 2) App prompts for a new location search
 - 3) User is returned to 2) in normal flow.
- 4a) Alternate stop cannot be added to the map
 - 1) Error message is displayed.
 - 2) App offers to try again
 - 3) User can try again, or quit.
- 3a) Stop added is already an adjacent stop
 - 1) Stop is rejected.
 - 2) Error message is displayed to user.
 - 3) User is returned to 2) in normal flow.

Use Case 9) Users can see course sequence

General Characteristics

Author: Eric Weiler

Last Update: 2/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: HokieSpa

Stakeholders and Interests: Users who want to see course sequence

Precondition: User is logged in and on the home page.

Success Postcondition: User has viewed course sequence

Failed Postcondition: User has not viewed course sequence

Main Success Scenario (or basic flow)

- 1) User clicks on courses menu
- 2) User navigates to view course sequence
- 3) Page loads sequence of all added courses

Extensions or Alternate Flows

- 3a) No courses are added
 - 1) User clicks on courses menu.
 - 2) User navigates to view course sequence.
 - 3) Page loads but no courses are displayed because existing courses were found.

Use Case 10) User can input grades received in each class

General Characteristics

Author: Eric Weiler

Last Update: 2/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Stakeholders and Interests: Users who want to input/updates grades in their courses

Precondition: User is logged in and at the home page

Success Postcondition: User has updated grades for a course/courses

Failed Postcondition: User has not updated grades for a course/courses

Main Success Scenario (or basic flow)

- 1) User clicks on course menu.
- 2) User selects input grades
- 3) All current courses are displayed
- 4) User selects course(s) they want to input grade(s)
- 5) User inputs grade.

Extensions or Alternate Flows

- 2a) No courses are added so grades cannot be input
 - 1) User clicks on courses menu.
 - 2) User selects input grades
 - 3) No courses are displayed because the user has not added any
 - 4) Grades are not added.
- 4a) Grades already exist for a course and the user wants to update the grade
 - 1) User clicks on courses menu.
 - 2) User selects input grades
 - 3) All current courses are displayed
 - 4) User selects course(s) they want to update grades.
 - 5) User overwrite existing grade in grade field with new grade

Use Case 11) Users will be notified when full classes are available

General Characteristics

Author: Eric Weiler

Last Update: 2/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: Email, Text Message Service

Stakeholders and Interests: Users wanting to receive notifications regarding class statuses

Precondition: User is logged in, at the homepage, and has a class they want to add but is unavailable.

Success Postcondition: User has added class to list of classes to receive notifications from upon vacancy.

Failed Postcondition: User was unable to add class to list of classes to receive notifications from upon vacancy.

Main Success Scenario (or basic flow)

- 1) User selects the notifications button
- 2) User navigates to add classes
- 3) User inputs the class they would receive notification from
- 4) User selects notification of type 'spot available'

Extensions or Alternate Flows

- 3a) Class does not exist
 - 1) User selects the notifications button
 - 2) User navigates to add classes
 - 3) User inputs the class they would receive notification from
 - 4) Class is not added because class does not exist

Use Case 12) Can view class/semester overview

General Characteristics

Author: Eric Weiler

Last Update: 2/21/2017

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: HokieSpa

Stakeholders and Interests: Users who want to see all of their classes and details

Precondition: User is logged in and at the home page

Success Postcondition: User has viewed all classes overview

Failed Postcondition: User has not viewed all classes overview

Main Success Scenario (or basic flow)

- 1) User clicks on courses menu
- 2) User selects overview
- 3) User selects semester
- 4) Overview is displayed

Extensions or Alternate Flows

- 4a) Class does not exist
 - 1) User clicks on courses menu
 - 2) User selects overview
 - 3) User cannot select semester; semester hasn't been created/classes added.

Use Case 13) User Creates an Account

General Characteristics

Author: Timothy Tran

Last Update: 02/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Precondition: User is already on the application homepage

Success Postcondition: User has created account with username and password

Failed Postcondition: User has not created account with acceptable username

Main Success Scenario (or basic flow)

- 1) User navigates to the signup page
- 2) User fills out the form to create an account
- 3) System validates the account username and password
- 4) User account is created
- 5) User can login to their account

Extensions or Alternate Flows

- 4a) Validation fails
 - 1) User is prompted to pick a username that is not taken
 - 2) Password does not meet secure requirements
 - 3) Passwords do not match and they must retype to verify

Special Requirements: Username and password must be stored securely

Frequency of Occurrence: Could happen often

Use Case 14) User logins

General Characteristics

Author: Timothy Tran

Last Update: 02/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Precondition: User is already on the sign-in homepage and has an account

Success Post: User has logged in

Failed Post: User did not log in with correct information

Main Success Scenario (or basic flow)

- 1) User navigates to the sign-in page
- 2) User fills out the login info
- 3) System checks the username and password
- 4) User is logged in

Extensions or Alternate Flows

- 3a) Username and password criterion do not match
 - 1) Username does not exist so you must retype it
 - 2) Password is incorrect so you must retype it
 - 3) Username/Password were forgotten so you must recover them.

Special Requirements: N/A

Frequency of Occurrence: Happens often

Use Case 15) User logouts

General Characteristics

Author: Timothy Tran

Last Update: 02/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Precondition: User has an account and is logged in

Success Postcondition: User is logged out

Failed Postcondition: User isn't logged out

Main Success Scenario (or basic flow)

- 1) User navigates to the logout button
- 2) User clicks the logout button
- 3) User is logged out of their account

Extensions or Alternate Flows

- *) User lost internet connection
 - 1) User regains internet connection
 - 2) User repeats process to logout

Special Requirements: Username and password must be stored securely

Frequency of Occurrence: Probably not too often

Use Case 16) User resets password

General Characteristics

Author: Timothy Tran

Last Update: 02/21/17

Scope: Pathways Class Builder

Level: User level

Status: Under review

Primary Actor: User

Secondary Actors: System Database

Precondition: User is logged in

Success Postcondition: User password has changed

Failed Postcondition: User password isn't changed

Main Success Scenario (or basic flow)

- 1) User navigates to account page
- 2) User clicks reset password
- 3) User enters old password and new password
- 4) System updates password

Extensions or Alternate Flows

- 3a) Passwords are the same
 - 1) User is sent back to reset page
 - 2) User is asked to enter a password different than the previous password

Special Requirements: N/A

Frequency of Occurrence: Could happen often