

Design Document

Toward TCC Version 2.1

COMPUTER SCIENCE DEPARTMENT

TEXAS CHRISTIAN UNIVERSITY

March 7, 2013

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Version 2.1

Revision Sign-off

By signing below, the team member certifies that he has read the entire document and has, to the best of his knowledge, found the information contained herein to be accurate and relevant within the document.

Name	Signature	Date
Matthew Bauer		
Reid Mulkey		
Jose Segura		

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Revision History

The following is a history of revisions made to this document.

Document Version	Date Submitted	Changes
Design Document V1.0	12/06/12	Initial Version
Design Document V1.1	12/12/12	Added State Diagram, initial iOS design
Design Document V2.0	1/24/13	Added Sequence and Class Diagrams, as well as android design
Design Document V2.1	3/7/13	Updated file structure, android design, and iOS design

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1 Introduction

1.1 Purpose

The purpose of this document is to describe the design of the Toward TCC mobile and web applications. The document contains state, sequence, and class diagrams. Along with a description of the file structure used to store user information.

1.2 Scope

The scope of Toward TCC is to provide an iOS, Android, and web app that shall allow users to track the progress of their college application in order to be ready to enroll upon graduating high school. The app will keep track of their progress by storing the data locally on the device. The app will have the ability to keep track of multiple users. It will display informational videos to the user along with notifying the user of upcoming deadlines. The user will also be able to utilize the Carrier Coach program that is used by TCC.

1.3 Overview of Document

Section 2 provides the limitations on the conditions under which the system is developed.

Section 3 provides the external interface requirements.

Section 4 provides the description of the file structure used to store user information.

Section 5 provides diagrams to illustrate how the application will function.

Section 6 provides the application prototype.

Section 7 provides a glossary of commonly used terms in our project.

Appendices will provide our use cases.

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2 Design Constraints

2.1 Assumptions and Dependencies

TCC will maintain a web server to run and update the applications after the TCU BullFrog team completes them. The BullFrog team must have access to TCC's Apple developer profiles and maintain open lines of communication.

2.2 General Constraints

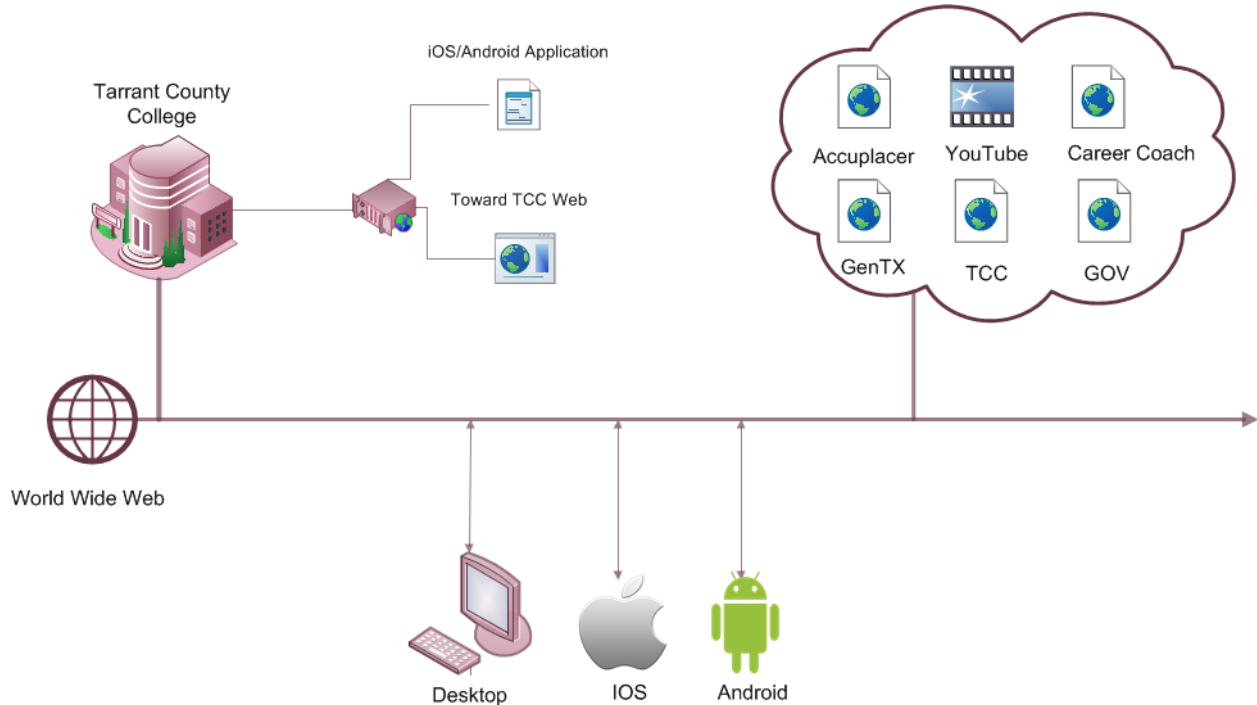
The Toward TCC project must be completed and documented by May 2013.

2.3 Development Methods

The team will be using an agile approach to the project since the application must meet the standards of TCC along with the needs of the customer.

3 System Architecture

The web application and the mobile applications will be hosted on a TCC web server. The server will update the content of the web application and push out updates for the mobile applications. iOS, Android, and web enabled devices are able to access the applications. Through the applications, the user will be able to access the ACCUPLACER and Career Coach tools, as well as the TCC videos hosted on YouTube.



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4 File Structure

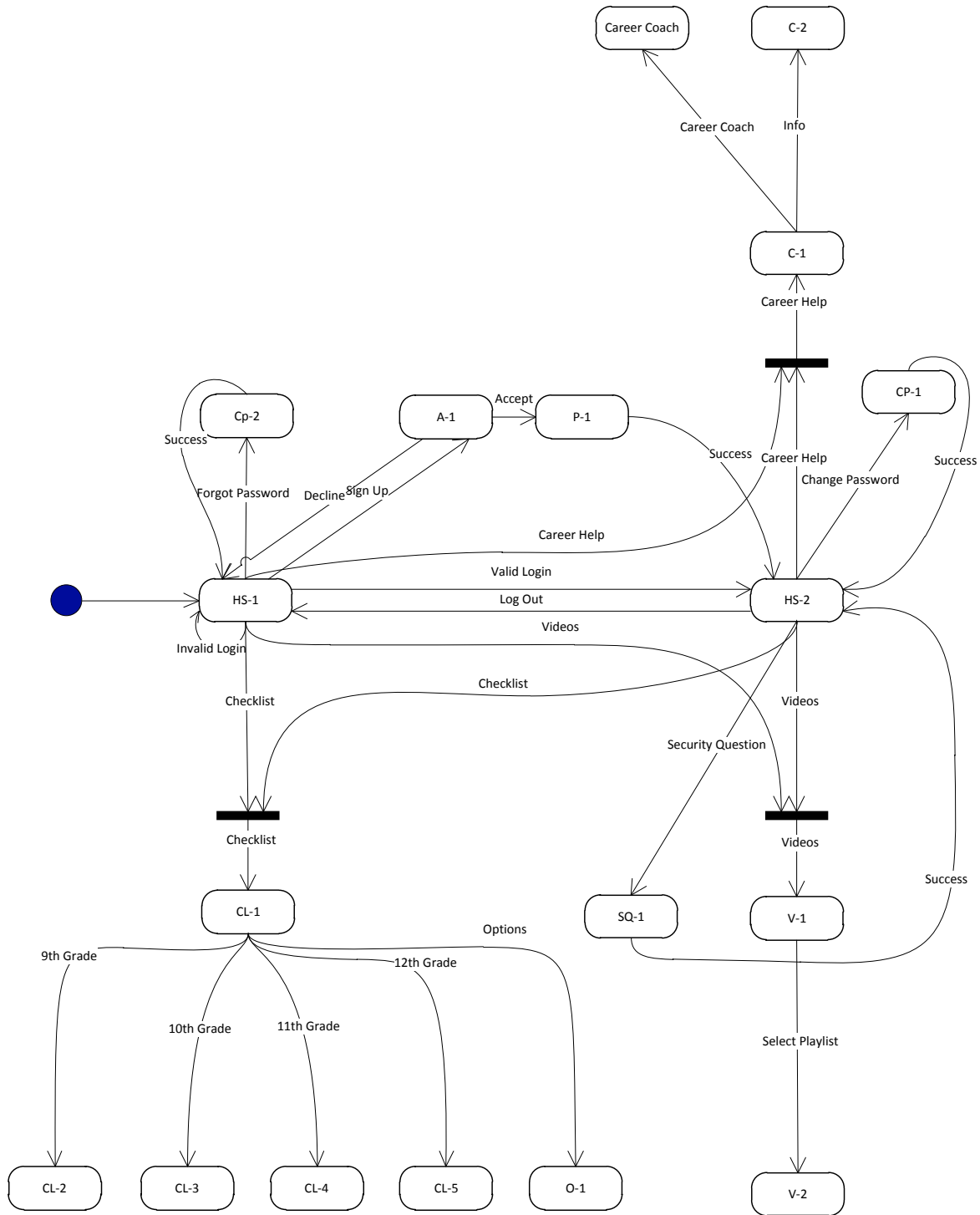
Each user will have their username and security question saved in a plain text format. The answer to their security question and their password will be encrypted, however. Each user will also have their checklist data, as well as their checklist options saved in arrays.

▼ Root	+	Dictionary	(4 items)
rememberedUsername		String	
rememberMe		Boolean	NO
currentUser		Number	-1
▼ users		Array	(1 item)
▼ Item 0		Dictionary	(8 items)
▼ checklistOptions		Array	(4 items)
Item 0		Boolean	NO
Item 1		Boolean	NO
Item 2		Boolean	NO
Item 3		Boolean	NO
▼ checklistData		Array	(4 items)
▼ Item 0		Array	(3 items)
Item 0		Boolean	NO
Item 1		Boolean	NO
Item 2		Boolean	NO
▼ Item 1		Array	(5 items)
Item 0		Boolean	NO
Item 1		Boolean	NO
Item 2		Boolean	NO
Item 3		Boolean	NO
Item 4		Boolean	NO
▼ Item 2		Array	(7 items)
Item 0		Boolean	NO
Item 1		Boolean	NO
Item 2		Boolean	NO
Item 3		Boolean	NO
Item 4		Boolean	NO
Item 5		Boolean	NO
Item 6		Boolean	NO
▼ Item 3		Array	(5 items)
Item 0		Boolean	NO
Item 1		Boolean	NO
Item 2		Boolean	NO
Item 3		Boolean	NO
Item 4		Boolean	NO
passwordHash		String	
securityQuestionAnswerHash		String	
securityQuestion		String	
username		String	
gradeLevel		Number	-1
givenGradeReminder		Number	-1

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5 Toward TCC Design 5.1 State Diagram



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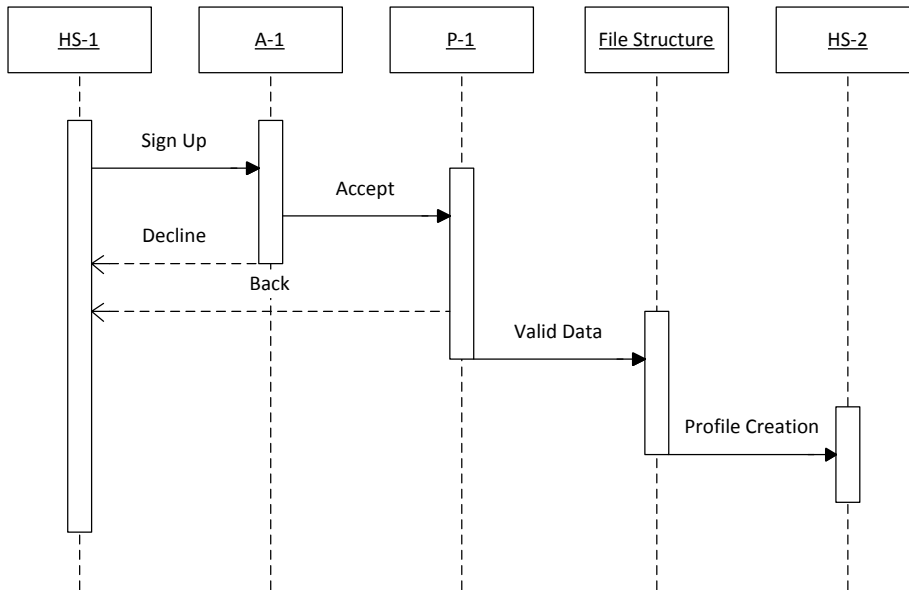
State	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
CP-1 (Change Password)	If the password is accepted then the user is directed back to HS-2. The user also has the option to back out to HS-2 without submitting.
CP-2 (Forgot Password)	If the password is accepted then the guest is directed back to HS-1. The user also has the option to back out to HS-1 without submitting.
A-1 (User Agreement)	The guest will both agree and continue with the profile creation or they will decline and be sent back to HS-1. The actor also has the option to back out to the last screen they accessed.
P-1 (Create Profile)	Upon successfully creating a Profile the guest is taken to HS-2 and becomes a user. The guest also has the option to go back to the HS-1.
CL-1 (Checklist Main Page)	The actor has access to the 9 th -12 th grade checklists, the options screen, and has the option to back out to their home screen (HS-1, HS-2).
CL-2 (9th Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
CL-3 (10th Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
CL-4 (11th Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
CL-5 (12th Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
O-1 (Options)	Only a user can access this page. The user can edit the notification interval or enable/disable. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
SQ-1 (Edit Security Question)	Only a user can access this page. The user can edit their security question and answer. They also have the option to back out to HS-2.
V-1 (Videos -1)	The actor can select the playlist they want to view and is taken to V-1 or they also have the option to back out to their home screen (HS-1, HS-2).
V-2 (Videos -2)	This is where the actor will view videos. They also have the option to back out to V-1 or to their home screen (HS-1, HS-2).
C-1 (Career Help)	The actor can access C-2 or Career Coach. They also have the option to back out to their home screen (HS-1, HS-2).
C-2 (Info)	The actor can view graphs and information provided by TCC. They also have the option to back out to C-1 or to their home screen (HS-1, HS-2).
Career Coach	This application helps students identify possible career paths.

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5.2 Sequence Diagrams

Create Profile

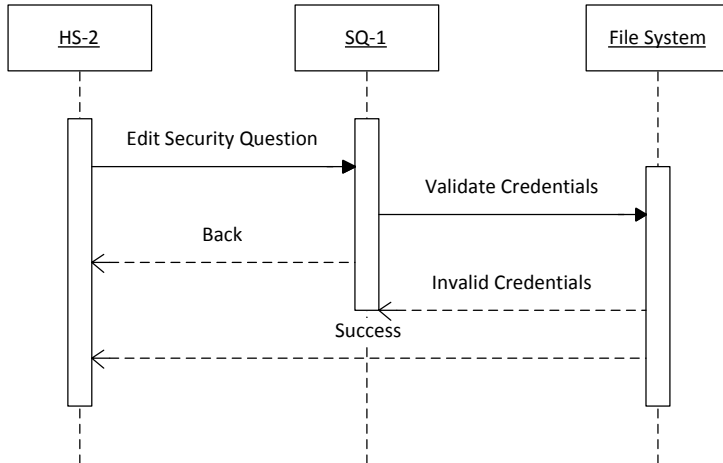


Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
A-1 (User Agreement)	The guest will both agree and continue with the profile creation or they will decline and be sent back to HS-1. The actor also has the option to back out to the last screen they accessed.
P-1 (Create Profile)	Upon successfully creating a Profile the guest is taken to HS-2 and becomes a user. The guest also has the option to go back to the HS-1.
File Structure	Maintains and verifies user data
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.

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Edit Security Question

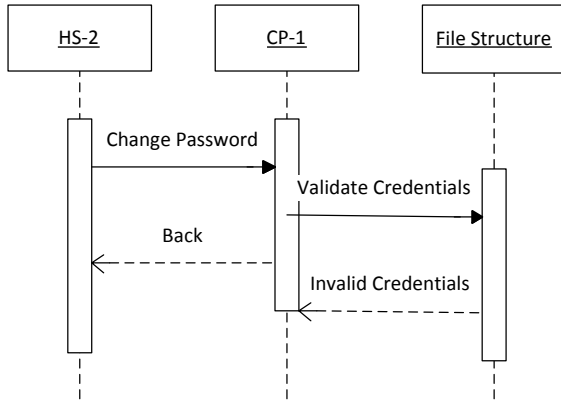


Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
SQ-1 (Edit Security Question)	Only a user can access this page. The user can edit their security question and answer. They also have the option to back out to HS-2.
File Structure	Maintains and verifies user data

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Change Password

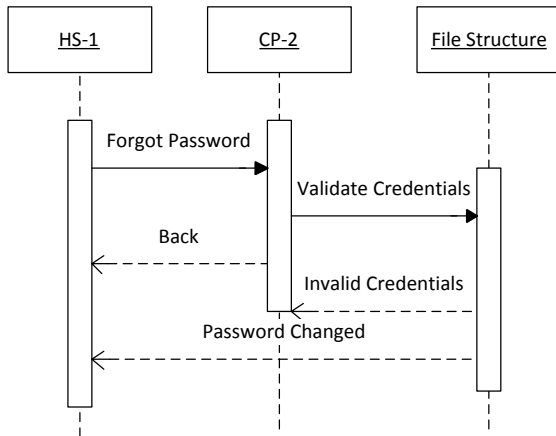


Class	Description
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
CP-1 (Change Password)	If the password is accepted then the actor is directed back to their home screen (HS-1, HS-2). The user also has the option to back out to the home screen (HS-1, HS-2).
File Structure	Maintains and verifies user data

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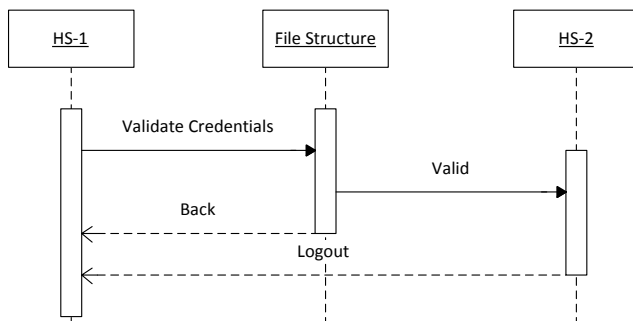
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Forgot Password



Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
CP-2 (Forgot Password)	If the password is accepted then the guest is directed back to HS-1. The user also has the option to back out to HS-1 without submitting.
File Structure	Maintains and verifies user data

Login/Logout



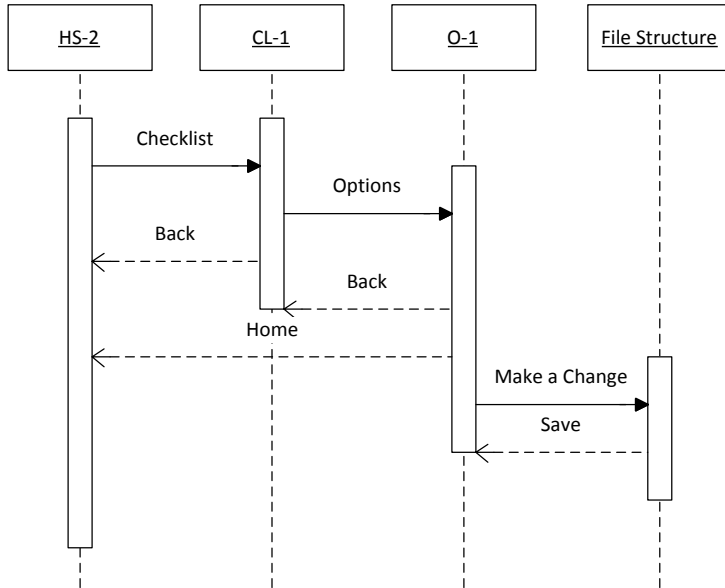
Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
File Structure	Maintains and verifies user data
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.

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Options

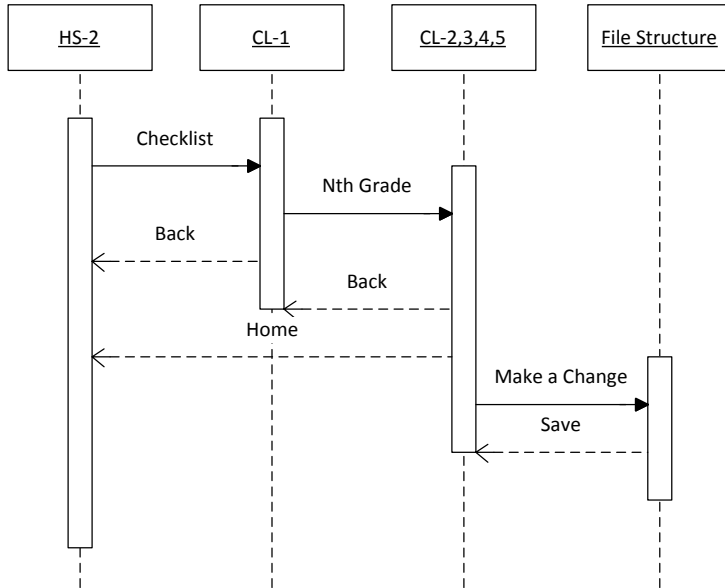


Class	Description
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
CL-1 (Checklist Main Page)	The actor has access to the 9 th -12 th grade checklists, the options screen, and has the option to back out to their home screen (HS-1, HS-2).
O-1 (Options)	Only a user can access this page. The user can edit the notification interval or enable/disable. They also has the option to back out to the home screen (HS-1, HS-2), or CL-1.
File Structure	Maintains and verifies user data

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Track Progress

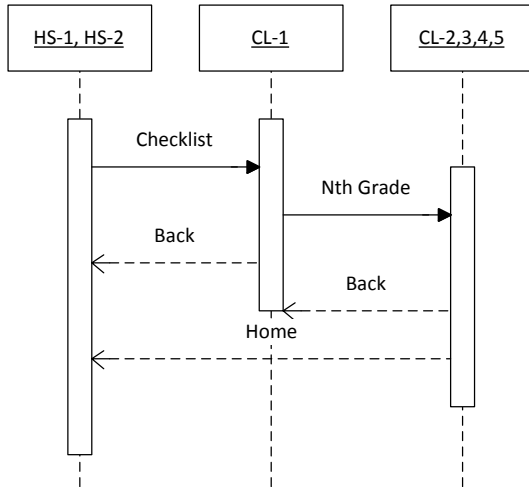


Class	Description
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
CL-1 (Checklist Main Page)	The actor has access to the 9 th -12 th grade checklists, the options screen, and has the option to back out to their home screen (HS-1, HS-2).
CL-2,3,4,5 (nth Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.
File Structure	Maintains and verifies user data

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View Checklist

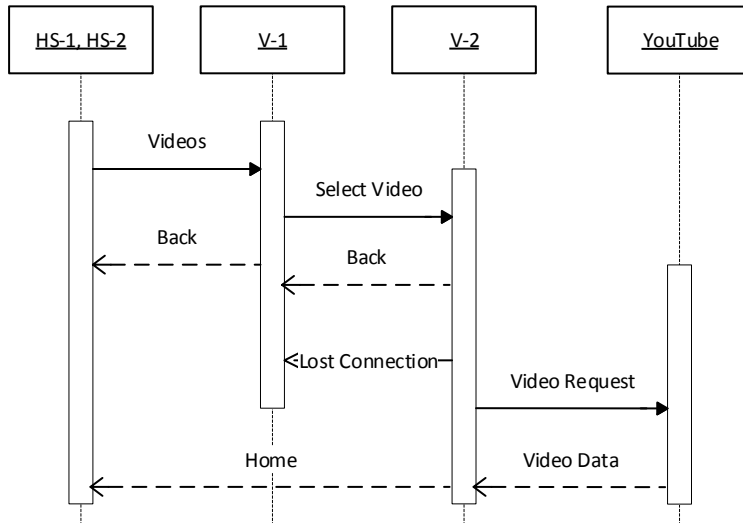


Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
CL-1 (Checklist Main Page)	The actor has access to the 9 th -12 th grade checklists, the options screen, and has the option to back out to their home screen (HS-1, HS-2).
CL-2,3,4,5 (nth Grade Checklist)	The actor can check off their items and if they're logged in then the state of the checklist will be saved to the device. They also have the option to back out to the home screen (HS-1, HS-2), or CL-1.

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Watch Videos

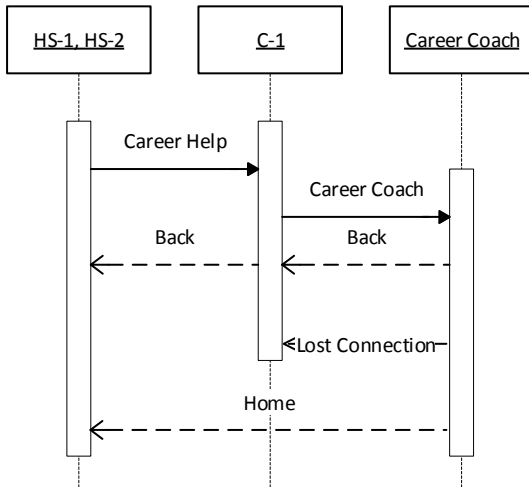


Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
V-1 (Videos -1)	The actor can select the playlist they want to view and are taken to V-1 or they also have the option to back out to their home screen (HS-1, HS-2).
V-2 (Videos -2)	This is where the actor will view videos. They also have the option to back out to V-1 or to their home screen (HS-1, HS-2).
YouTube	The application uses YouTube to view the videos.

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Career Coach

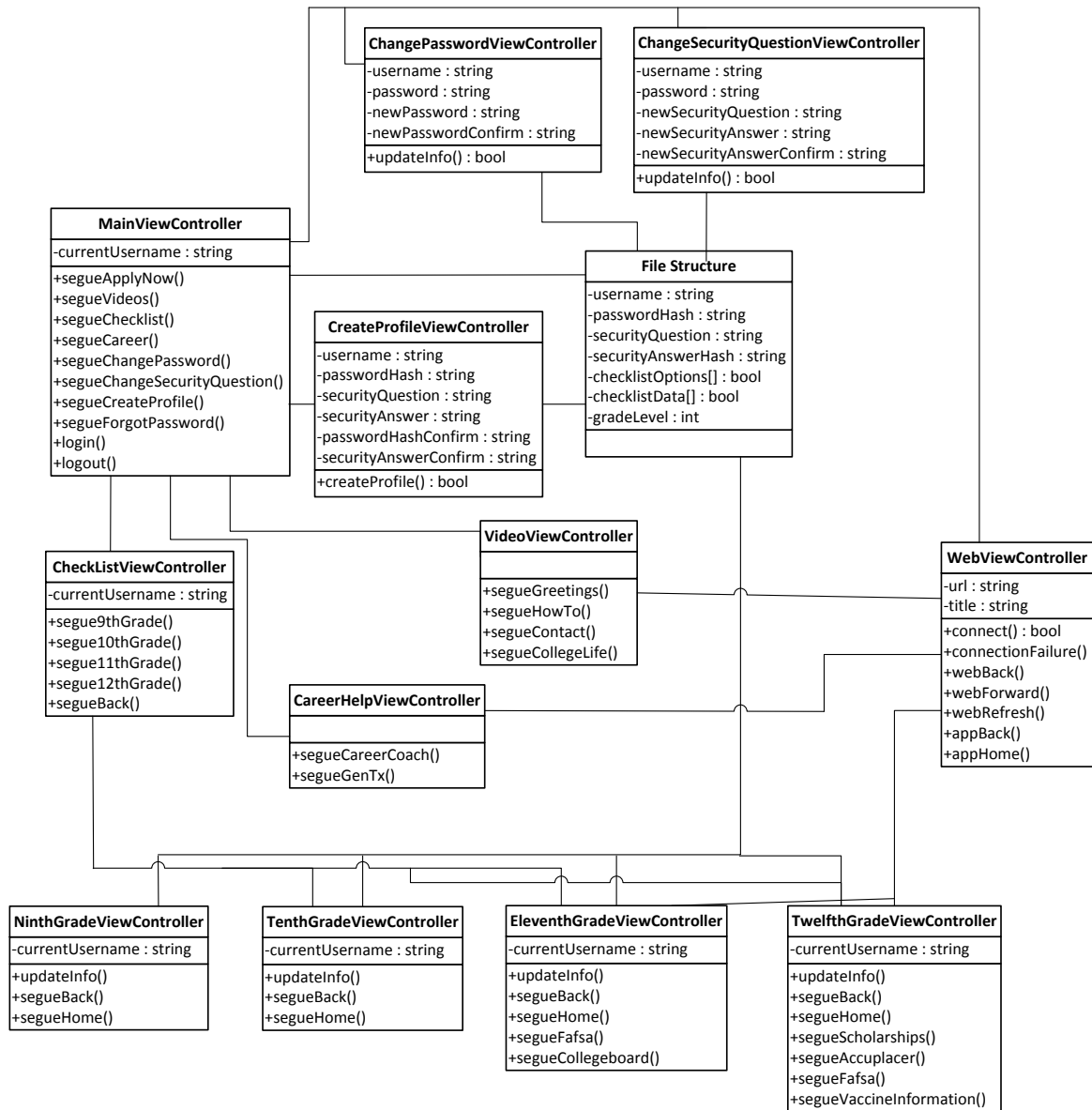


Class	Description
HS-1 (Home Screen 1)	This is the screen that guests will see when they first start the application. It is the central hub used to access the rest of the application.
HS-2 (Home Screen 2)	The user sees this page in place of HS-1 only if they are logged in. It offers full access to all of the application.
C-1 (Career Help)	The actor can access C-2 or Career Coach. They also have the option to back out to their home screen (HS-1, HS-2).
Career Coach	This application helps students identify possible career paths.

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5.3 Class Diagrams



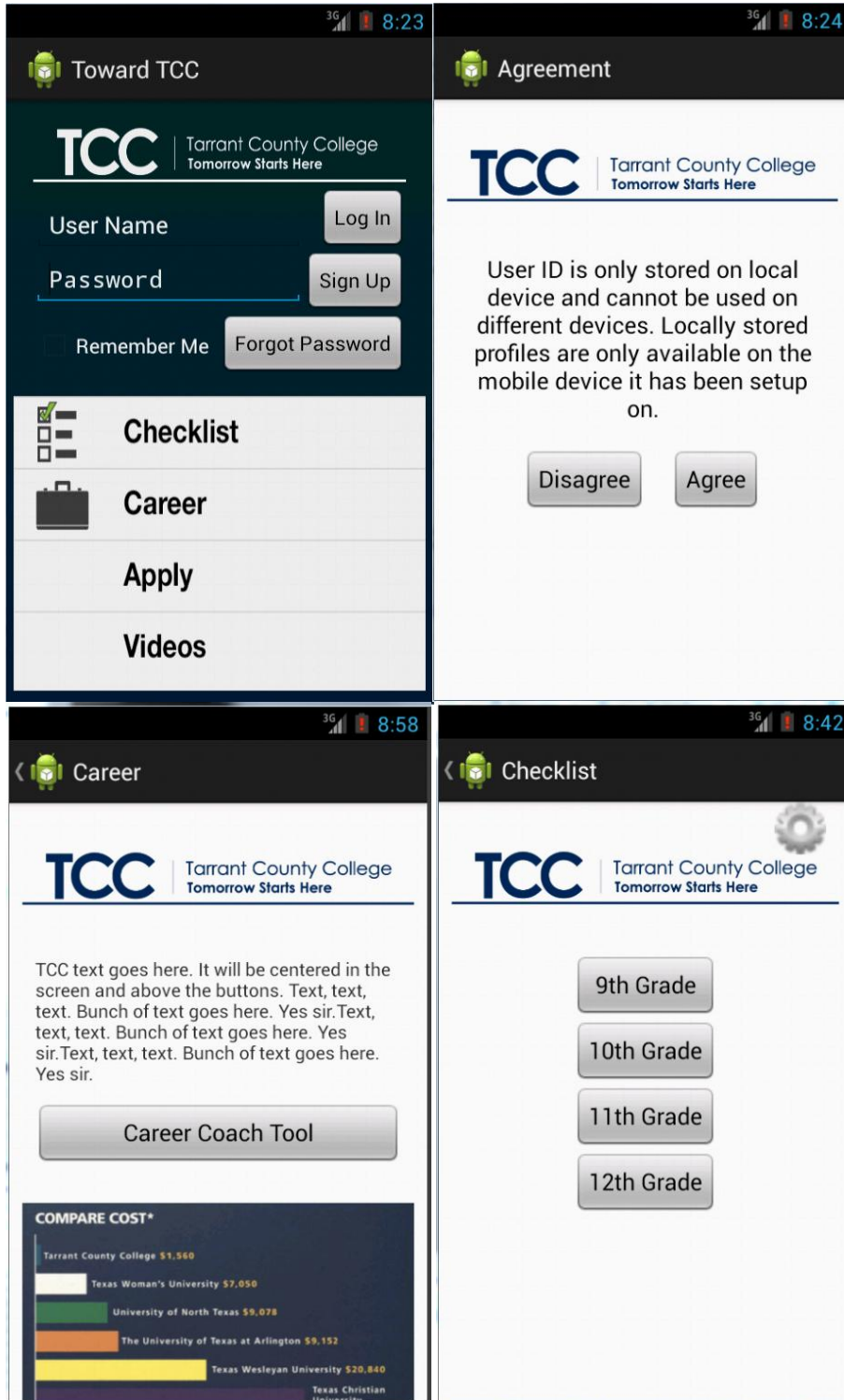
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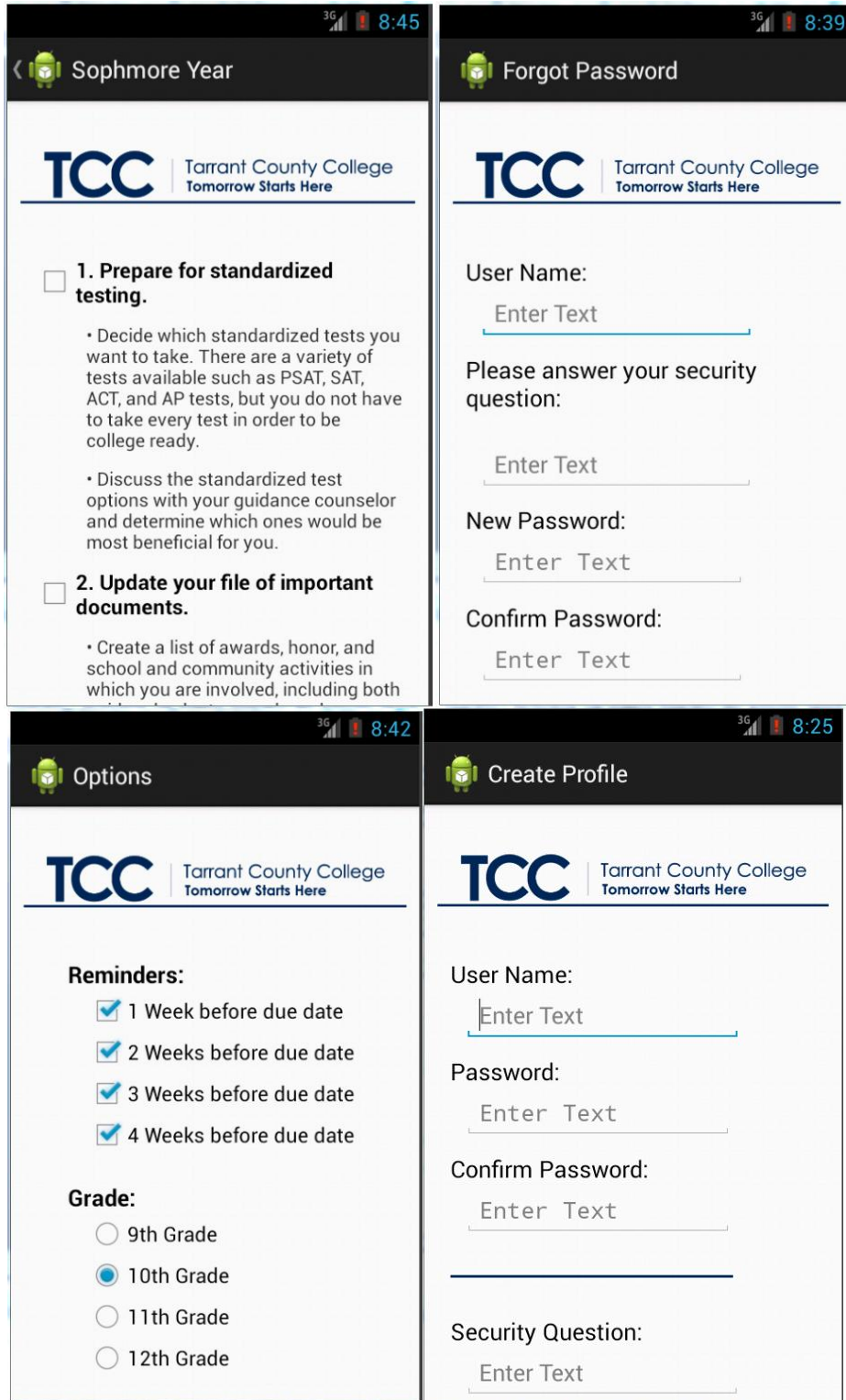
6 User Interface

6.1 User Interface - Android



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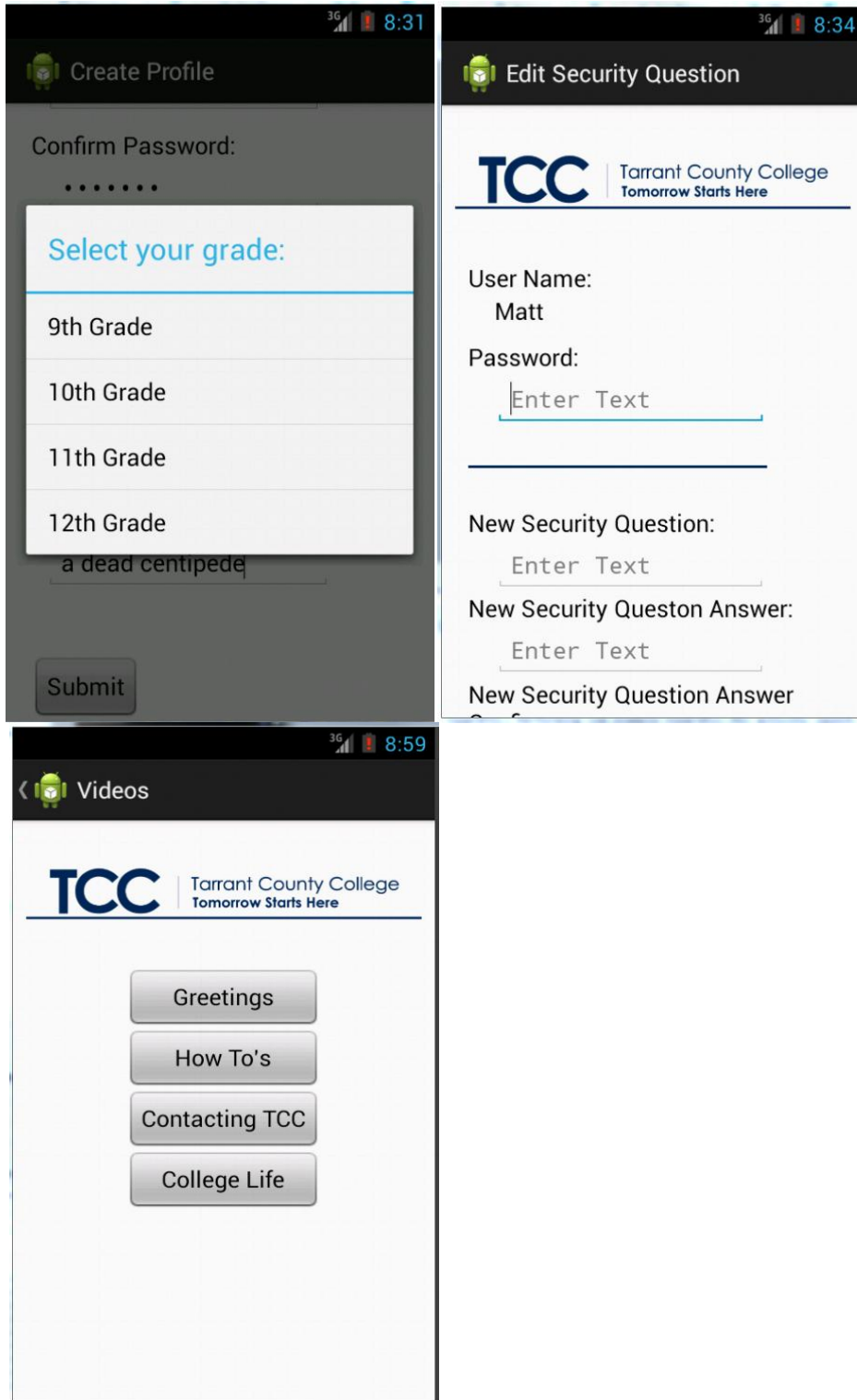
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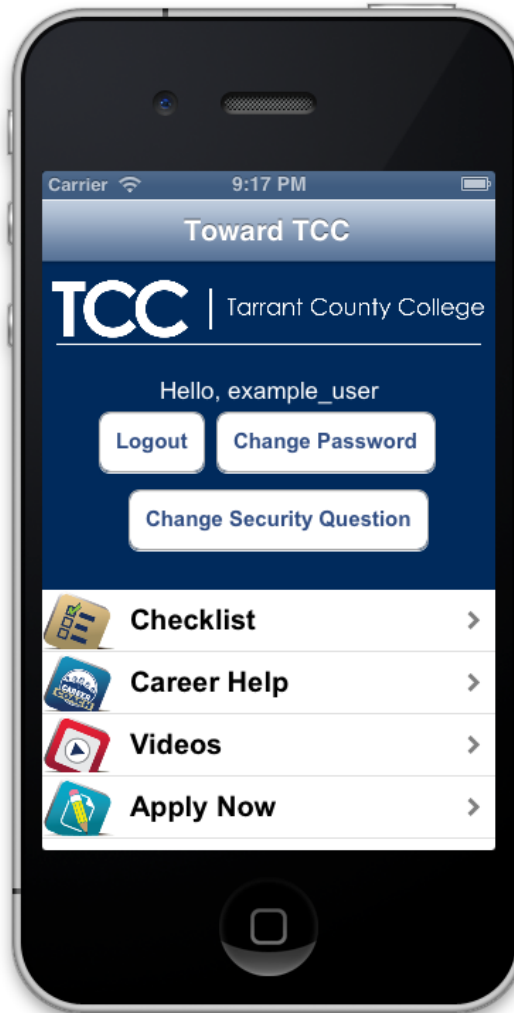
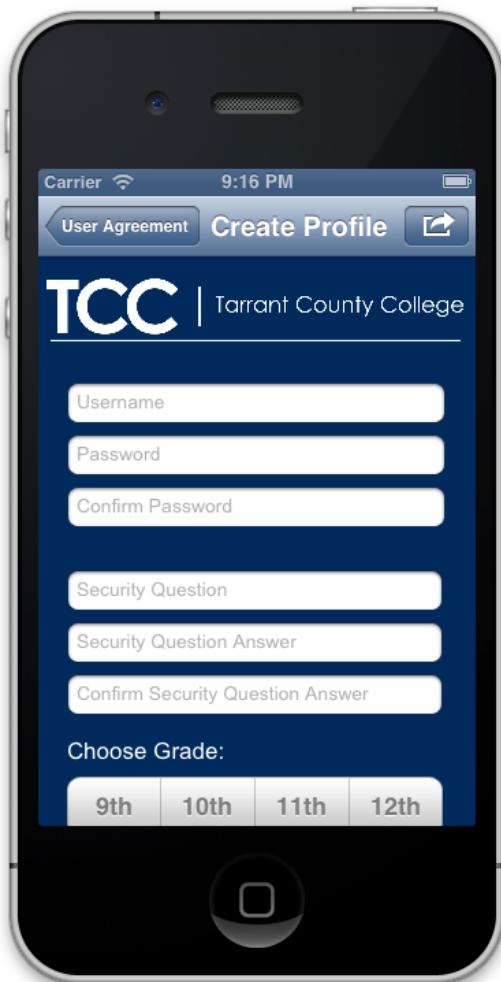
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6.2 User Interface - iOS



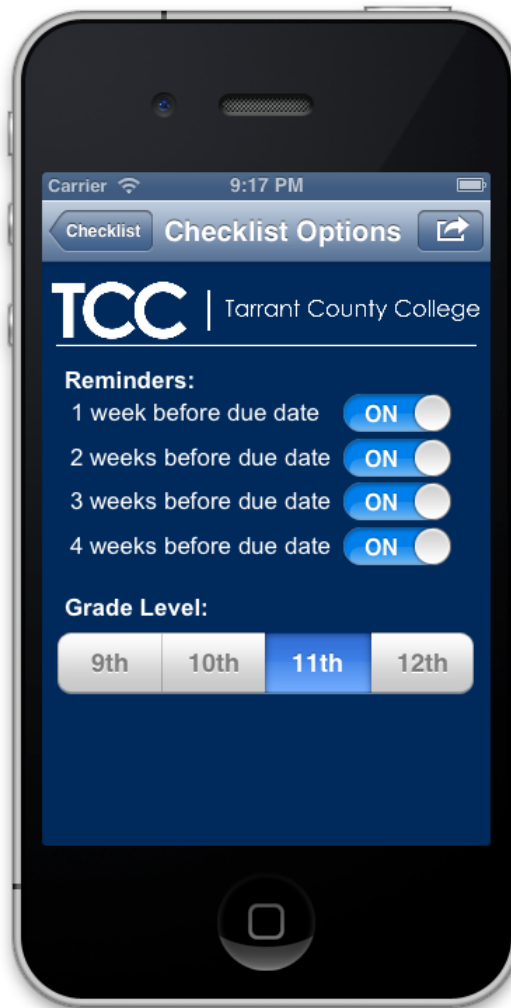
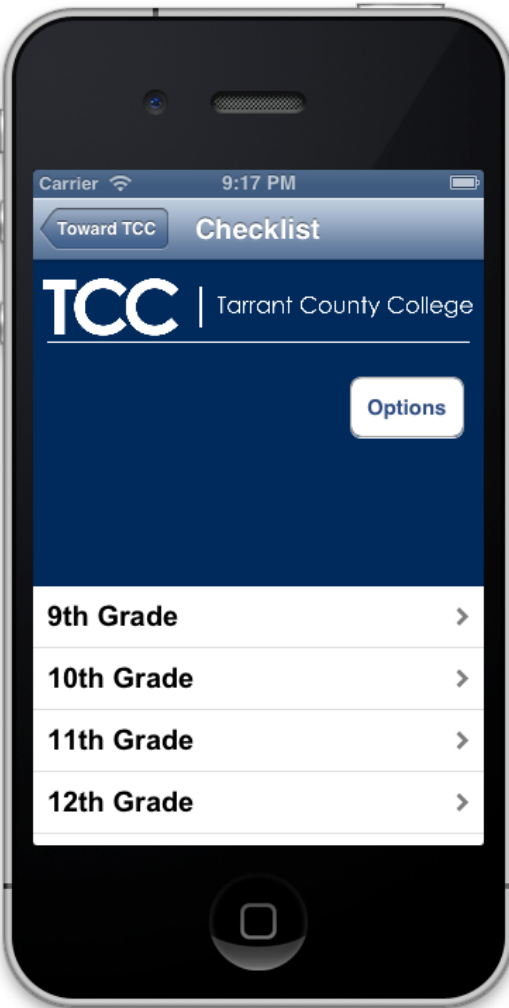
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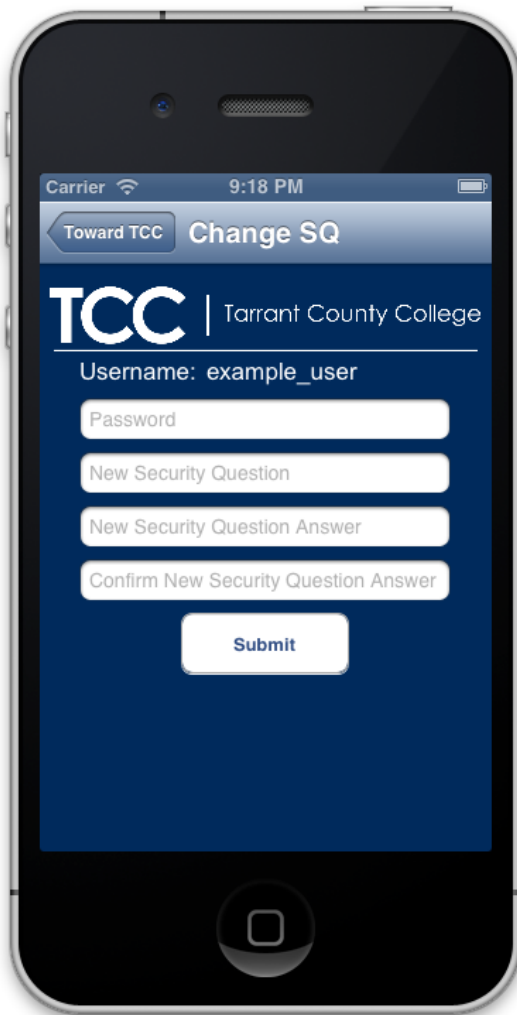
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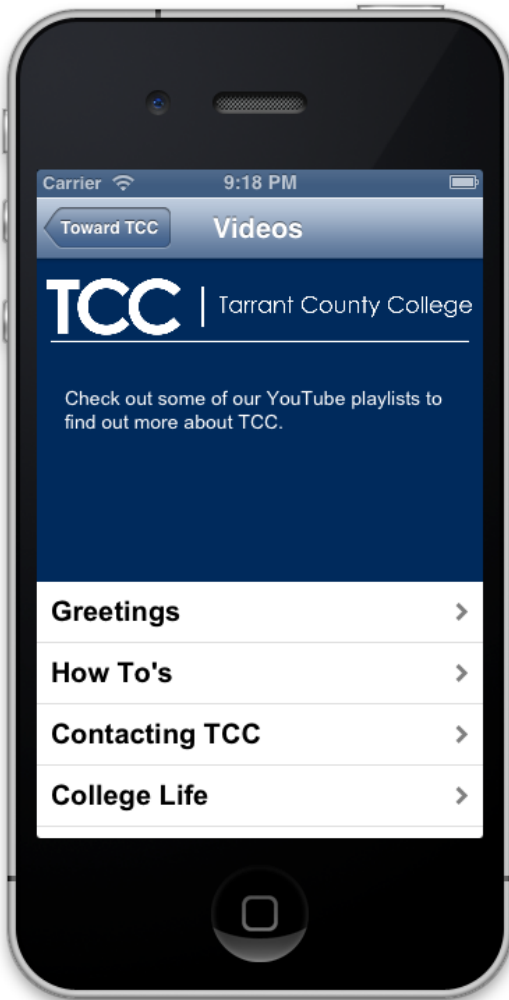
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Glossary of Terms

Apple HIG (Apple's Human Interface Guidelines) – Guidelines Apple has established for iOS user interfaces. If these guidelines are broken, the application will not be allowed onto the app store.

Application Videos – Videos that CACO is currently using to promote higher education.

College Checklist – This is a checklist with useful information necessary to complete before attending college.

CACO (College Awareness Community Outreach) – They are the customers for the project. CACO goes to area schools to teach children how to be successful in school and how higher education can make a difference in their life.

Career Coach – Students can input their interests and receive a list of relevant careers and all the classes required.

FERPA (Family Educational Rights and Privacy Act) – This is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

iOS – Apple's mobile operating system.

plist – The markup language used by iOS devices. They will be used to store data on the device.

TCC (Tarrant County College)

TCCD (Tarrant County College District)

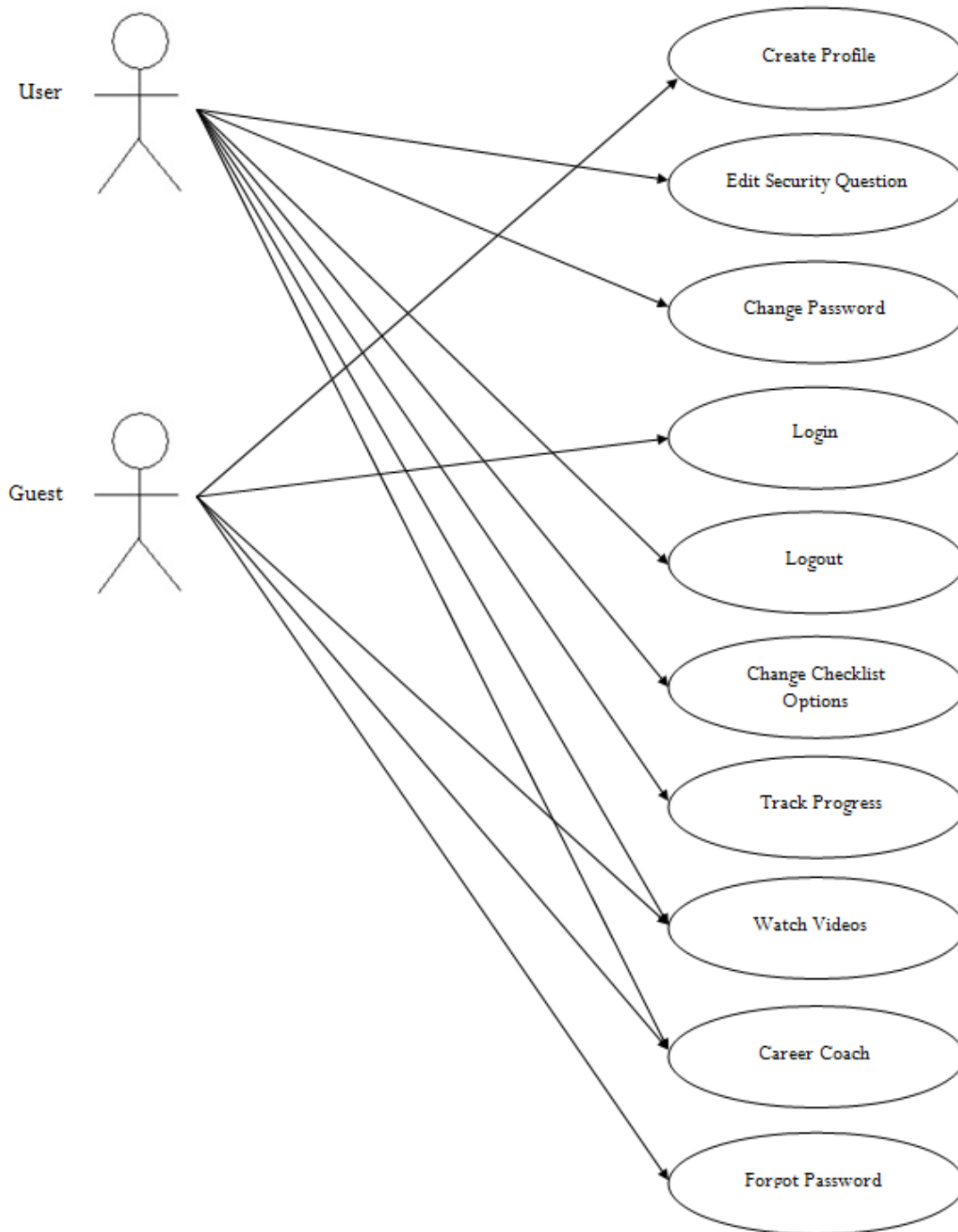
TCCWCD (Tarrant County College Web Communications Department) –Contact for CACO. They will maintain the project after the delivery.

TCU (Texas Christian University)

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Appendix A – Use Cases



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Create Profile

Create Profile	
Actors	Guest
General Goal	The guest can create a user profile on a mobile device, in order to store their Checklist progress.
Pre-Conditions	App installed on the mobile device and guest not logged in.
Triggers	The guest presses the "Sign Up" button.
Course of Events	<ol style="list-style-type: none">1. The "User Agreement" screen (A-1) is displayed.<ol style="list-style-type: none">a. If the guest presses "Agree" they continue to the "Create Profile" screen (P-1) and continue with the profile creation process.b. If the guest presses "Disagree" they are taken back to the "Home" screen (HS-1) and do not successfully create a user profile.2. On "Create Profile" screen (P-1) the guest must enter the desired username, password, security question, and security question answer. The guest will also confirm their password and answer in separate fields. When the guest has finished they press the "Submit" button.3. The application verifies the data entered in step 2.<ol style="list-style-type: none">a. If the username is already taken, information is missing, or the password or answer are not confirmed, an application will inform the guest. The guest will remain on the "Create Profile" screen (P-1).b. If the username available, all information has been provided, and the confirmation password and answer match the original entries, the guest will be logged in and taken to the new "Home" screen (HS-2).
Alternate Paths	If the guest presses the "Back" button or the "Disagree" button while creating a profile, they will be taken back to the "Home" screen (HS-1), and any information they may have entered will be discarded.
Post Conditions	The guest will be taken back to the "Home" screen (HS-2), and they will be logged in, becoming a user. A label will display "Welcome, <username>". They will receive a toast notification informing the user that they have been logged in.

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Edit Security Question

Edit Security Question	
Actors	User
General Goal	The user has the ability to edit their security question.
Pre-Conditions	The user is logged in.
Triggers	User clicks the "Change Security Question" button.
Course of Events	<ol style="list-style-type: none">1. The "Edit Security Question" screen (SQ-1) is displayed.2. The user enters their password, new security question, new security answer, and security answer confirmation.3. User clicks the "Submit" button.<ol style="list-style-type: none">a. If the password is invalid, all the fields have not been filled, or the new security answer does not match the security answer confirmation, then a notification will inform the user. The user will remain on this screen.b. If the password is valid, all the fields have been filled, and the new security answer matches the security answer confirmation, then the user will have their security question and answer changed. They will be taken back to the "Home" screen (HS-2).
Alternate Paths	The user can push the back button to go back to the "Home" screen (HS-2). Any information entered will be discarded.
Post Conditions	The user's security question and answer will be changed. The user will be taken back to the "Home" screen (HS-2) and will receive a toast notification informing them that their security question has been changed.

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Change Password

Change Password	
Actors	User
General Goal	The user can change their current password.
Pre-Conditions	User accounts exist on the device, and the "Home" screen (HS-2) is displayed.
Triggers	The "Change Password" button is pressed.
Course of Events	<ol style="list-style-type: none">1. The "Change Password" screen (CP-1) is displayed.2. The actor enters their current password, new password, and new password confirmation.3. The data is verified.<ol style="list-style-type: none">a. If the current password is invalid or the new password does not match the confirmation, then a push notification will inform the user.b. If the password is valid and the new password matches the confirmation, the user will be taken back to the "Home" screen (HS-2), and their password will be updated.
Alternate Paths	If the actor presses the "Back" button while changing their password, they will be taken back to the "Home" screen (HS-2), and any information they may have entered will be discarded.
Post Conditions	The user will be taken back to the "Home" screen (HS-2) and have a new password. The user will receive a toast notification informing them that their password has been changed.

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Forgot Password

Forgot Password	
Actors	User
General Goal	To change the current password.
Pre-Conditions	The home screen (HS-1) is displayed.
Triggers	The "Forgot Password?" button is pressed.
Course of Events	<ol style="list-style-type: none">1. The "Forgot Password?" button is pressed.2. The "Forgot Password" screen (CP-2) is displayed.2. The user enters the user name of the account they want to edit.<ol style="list-style-type: none">a. If it is a valid user name, the security question field will update to that users question.b. If it is an invalid user name, then a push notification will inform the user and the security question field will be blank.3. The user enters the answer to the security question and a new password.4. The security question answer is verified by the application.<ol style="list-style-type: none">a. If the answer is invalid, then a push notification will inform the user.b. If the answer is valid, then a push notification will inform the user, they will be taken back to the home screen, and the password will be updated.
Alternate Paths	If the user presses the "Back" button while changing their password, they will be taken back to the home screen, and any information they may have entered will be discarded.
Post Conditions	The user will be taken back to the home screen and logged in. They will have a new password, and they will receive a toast notification informing them that they have logged in.

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Login

Login	
Actors	Guest
General Goal	The guest can login to a currently existing profile.
Pre-Conditions	The guest is not logged in, "Home" screen (HS-1) is displayed.
Triggers	The guest enters their login information and clicks the "Login" button.
Course of Events	<ol style="list-style-type: none">1. The guest enters their login information.2. The "Login" button is pressed.<ol style="list-style-type: none">a. If the username and password entered are invalid, the application will generate a notification informing the guest that their credentials are incorrect. The guest will remain on the "Home" screen (HS-1), and will not be logged in.b. If the username and password entered are valid, the guest will be logged in, becoming a user. They will then be taken to the new "Home" screen (HS-2).
Alternate Paths	If the username and password entered are invalid, the application will display a notification informing the guest that their credentials are incorrect.
Post Conditions	The guest will be logged in and taken to the "Home" screen (HS-2), becoming a user. The user will receive a toast notification informing them that they have logged in.

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Logout

Logout	
Actors	User
General Goal	The user may logout of their profile.
Pre-Conditions	The user is logged in.
Triggers	The user clicks the "Logout" button on the "Home" screen (HS-2).
Course of Events	<ol style="list-style-type: none">1. The user clicks the "Logout" button on the "Home" screen (HS-2).2. The user will be logged out, becoming a guest. They will be taken to the "Home" screen (HS-1).
Alternate Paths	None.
Post Conditions	The user will be logged out. The user will receive a toast notification informing them that they have logged out.

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Change Checklist Options

Change Checklist Options	
Actors	User
General Goal	The user may store their options for checklist reminders, and checklist reminder frequency.
Pre-Conditions	The user is logged in.
Triggers	The user presses the "Options" button.
Course of Events	<ol style="list-style-type: none">1. The "Checklist Options" screen is displayed.2. The user changes the options. The options will be saved as soon as changes are made.
Alternate Paths	The user can push the "Home" button and go back to the "Home" screen (HS-2), or push the "Back" button to go back to the "Checklist" screen (CL-1).
Post Conditions	The application will now have reminders set according to the changed options.

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Track Progress

Track Progress	
Actors	User
General Goal	The user may store their Checklist progress. This data is unique for each user.
Pre-Conditions	The user is logged in, and the user checks off a Checklist activity.
Triggers	The "Nth Grade Checklist" screen (CL-2 through CL-5) is displayed.
Course of Events	<ol style="list-style-type: none">1. The user checks off a Checklist activity. This data will be saved as soon as changes are made.
Alternate Paths	The user can push the "Home" button and go back to the "Home" screen (HS-2), or push the "Back" button to go back to the "Checklist" screen (CL-1).
Post Conditions	The application will save the data the user has checked off.

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View Checklist

View Checklist	
Actors	Guest, User
General Goal	The user may view the checklist activities.
Pre-Conditions	The application is installed
Triggers	The actor is viewing the Checklist (CL-1) screen.
Course of Events	<ol style="list-style-type: none">1. The "Nth Grade Checklist" screen (CL-2 through CL-5) is selected.2. The actor views a Checklist activity. If the actor is not logged in, they cannot track progress.
Alternate Paths	The actor can push the "Home" button and go back to the "Home" screen (HS-1 or HS-2), or push the "Back" button to go back to the "Checklist" screen (CL-1).
Post Conditions	None.

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Watch Videos

Watch Videos	
Actors	Guest, User
General Goal	The actor will be able to watch YouTube videos provided by TCC.
Pre-Conditions	The home screen (HS-1 or HS-2) is displayed.
Triggers	The actor selects the "Videos" screen (V-1).
Course of Events	<ol style="list-style-type: none">1. The "Videos" screen (V-1) is displayed.2. The actor selects one of the playlists listed.<ol style="list-style-type: none">a. If the actor is on the mobile application, they will be taken to another page within the application to display the video.b. If the actor is on the web application, they will be taken to the site of the YouTube playlist.
Alternate Paths	If the actor presses the "Back" button, they will be taken back to the "Videos" screen (V-1). If the actor presses the "Home" button, they will be taken back to the "Home" screen (HS-1 or HS-2). If the device loses internet connection, They will be taken back to the "Videos" screen (V-1), and receive a push notification informing the user of the lost connection.
Post Conditions	After the actor has seen the entire playlist, they will be taken back to the "Videos" screen (V-1).

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Career Coach

Career Coach	
Actors	Guest, User
General Goal	The actor can access TCC's Career Coach application.
Pre-Conditions	The home screen (HS-1 or HS-2) is displayed.
Triggers	The actor presses to the "Career Help" button.
Course of Events	<ol style="list-style-type: none">1. The "Career Help" screen (C-1) is displayed.2. The actor presses the "Career Coach" button.3. The web page for Career Coach will be displayed within the application, as well as some navigation tools.
Alternate Paths	If there is not an internet connection, the user will be taken to the "Career Help" screen (C-1). The user will receive a push notification informing the user of the lost connection. If the actor presses the back button, they will be taken back to the "Career Help" screen (C-1). If the actor presses the "Home" button, they will be taken back to the "Home" screen (HS-1 or HS-2).
Post Conditions	Once the actor is done using Career Coach, they can press the back button, which will take them back to the "Career Help" screen (C-1).