



# T3A2-B

## Full Stack Web App (Part B)

### Tumbling Skills Tracker

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# Previous Presentation (Part A)

In our previous presentation we covered the following key areas:

1. Proposed App Idea
2. App Purpose
3. App Design



# Proposed App Idea - Summary

- Tumbling Skills Tracker Website
- Allows coaches and educators to track an athlete's individual skills progression when conducting assessments.
- Staff will be able to login to the website and view students, skills and conduct assessments with various functionalities (Add, edit, delete).



# Purpose of Tumbling Skills Tracker - Summary

- To replace the manual, outdated and inefficient method currently in-place at Elite All-Stars.
- With the business expanding and growing to over 150 students, there is a need automation through our application when conducting assessments for students and storing the data.
- Purpose of the website is to track progression of students and store their data.
- This gives staff and coaches the ability to access data easily, automate record keeping and conduct/review assessments.



# App Design - Summary

## User Stories:

### (Students)

- As an admin I want to store sensitive student information securely.
- As an admin I want to be able to add new students to the database.
- As a coach I want to be able to view all the current students at the gym.
- As an admin I want to be able to delete a student from the database.
- As an admin I want to be able to update a student's details.
- As a coach I want to view the current level of a student.

### (Skills)

- As a coach I want to see a list of all skills.

## User Stories:

### (Assessments)

- As a coach I would like to be able to carry out a new assessment on a student.
- As a coach I would like to be able to view all the assessments for a given student.
- As an admin I would like to be able to delete an assessment.
- As an admin I would like to be able to amend an assessment where a mistake may have been made.

### (Users)

- As an admin I want to store sensitive student
- As an admin I want to be able to add new user to the database.
- As an admin I want to be able to update a user's details.
- As an admin I want to be able to delete a user from the database.

### (Misc.)

- As an admin/coach I want to be able to login and logout of the App.

# Desktop Wireframes based off User Stories:

## LOGIN

ELITE ALL-STARS LOGO

Username:

Username Input Field

Password:

Password Input Field

Login Button

Content Background

Background

## HOME

ELITE ALL-STARS LOGO

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

HERO CONTENT  
Image - Introduction

STUDENTS  
Image  
Text

SKILLS  
Image  
Text

NEW ASSESSMENT  
Image  
Text

USERS  
Image  
Text  
(Admin view only)

Content Background

Footer

## SKILLS

ELITE ALL-STARS LOGO

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Level 1  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Level 2  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Level 3  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Level 4  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Level 5  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Level 6  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description  
Skill name: Description

Content Background

Footer

## NEW ASSESSMENT

ELITE ALL-STARS LOGO

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Student Name:

\*Type student name\*

Select Assessment:

\*Select a level of assessment from the drop down\*

SKILLS	R1	R2	R3	R4
Skill 1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skill 2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Skill 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Skill 4	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skill 5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\*The skills table is populated once an assessment level is selected\*

SUBMIT

Content Background

Footer

# Desktop Wireframes based off User Stories:

## ALL STUDENTS

ELITE ALL-STARS LOGO

Header

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Navbar

Student search input Field

+

Add New Student (Admin view only)

Name:

Id:

Info:

Name:

Id:

Info:

Name:

Id:

Info:

Name:

Id:

Info:

Name:

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Content Background

Footer

## ONE STUDENT

ELITE ALL-STARS LOGO

Header

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Navbar

STUDENT NAME

ASSESSMENTS CONDUCTED

Assessment 1 - Level 2 - 07/04/1996

Skill 1

Needs Work

Skill 2

Outstanding

Skill 3

Outstanding

Skill 4

Needs Work

Skill 5

Acceptable

Assessment 2 - Level 2 - 09/04/1996

+

Assessment 3 - Level 3 - 09/07/1996

+

Admin

Content Background

Footer

## ALL USERS

ELITE ALL-STARS LOGO

Header

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Navbar

Student search input Field

+

Add New Student (Admin view only)

Name:

Id:

Info:

Name:

Id:

Info:

Name:

Id:

Info:

Name:

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Content Background

Footer

## ONE USER

ELITE ALL-STARS LOGO

Header

Home

STUDENTS

SKILLS

NEW ASSESSMENT

USERS (Admin view only)

Navbar

Username:

TheDreamTeam

Name:

Lachmax Argine

Admin:

True ☒ False ☐

Date created:

16/08/2023

(This field appears after 'edit' is clicked from menu in admin cog)

Username:

\*Enter new Username\*

Name:

\*Enter new Name\*

Password:

\*Enter new Password\*

Admin:

True ☐ False ☐

Save Changes

Admin

Edit Delete

(This menu appears when the cog is clicked)

Content Background

Footer

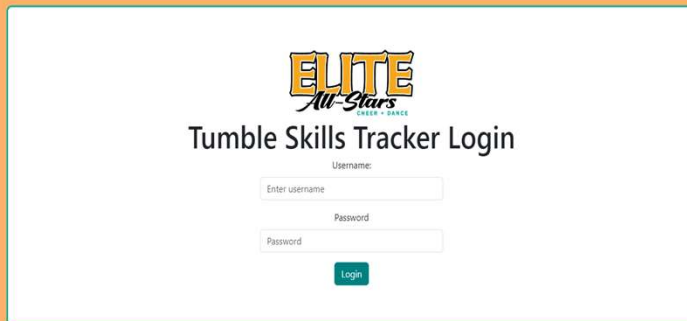


# Overview of Production Website (Part B)

## – Login Page

- All pages of the application are built with Responsive Design principles for the following screen sizes: Web, Tablet and Mobile (Following slides show web view, README.md shows all).
- The functionality and features of each page reflect and complete different aspects of the User Stories.
- Built from wireframes but updated depending on User Testing recommendations and functionality

WEB

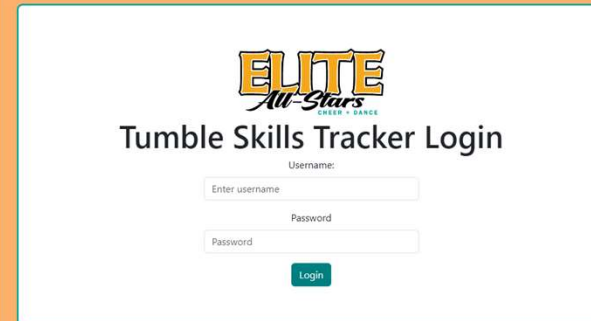


The web version of the login page features a large, centered logo for 'ELITE All-Stars' with 'CHEER + DANCE' in smaller text below it. Below the logo is the title 'Tumble Skills Tracker Login'. Underneath the title, there is a 'Username:' label followed by an input field with the placeholder text 'Enter username'. Below that is a 'Password:' label followed by an input field with the placeholder text 'Password'. At the bottom center is a green 'Login' button.

### User Stories:

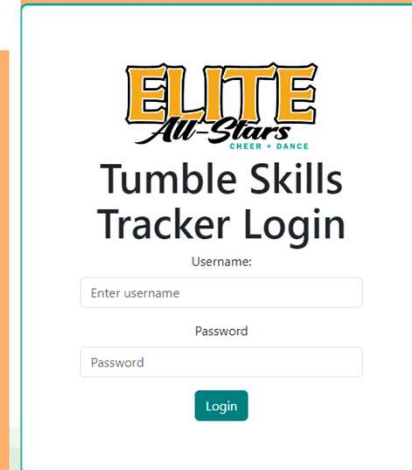
- As an admin/coach I want to be able to login and logout of the App.

TABLET



The tablet version of the login page is similar to the web version but scaled to fit the tablet screen. It features the 'ELITE All-Stars' logo, the title 'Tumble Skills Tracker Login', and the same username and password input fields with a green 'Login' button at the bottom.

MOBILE



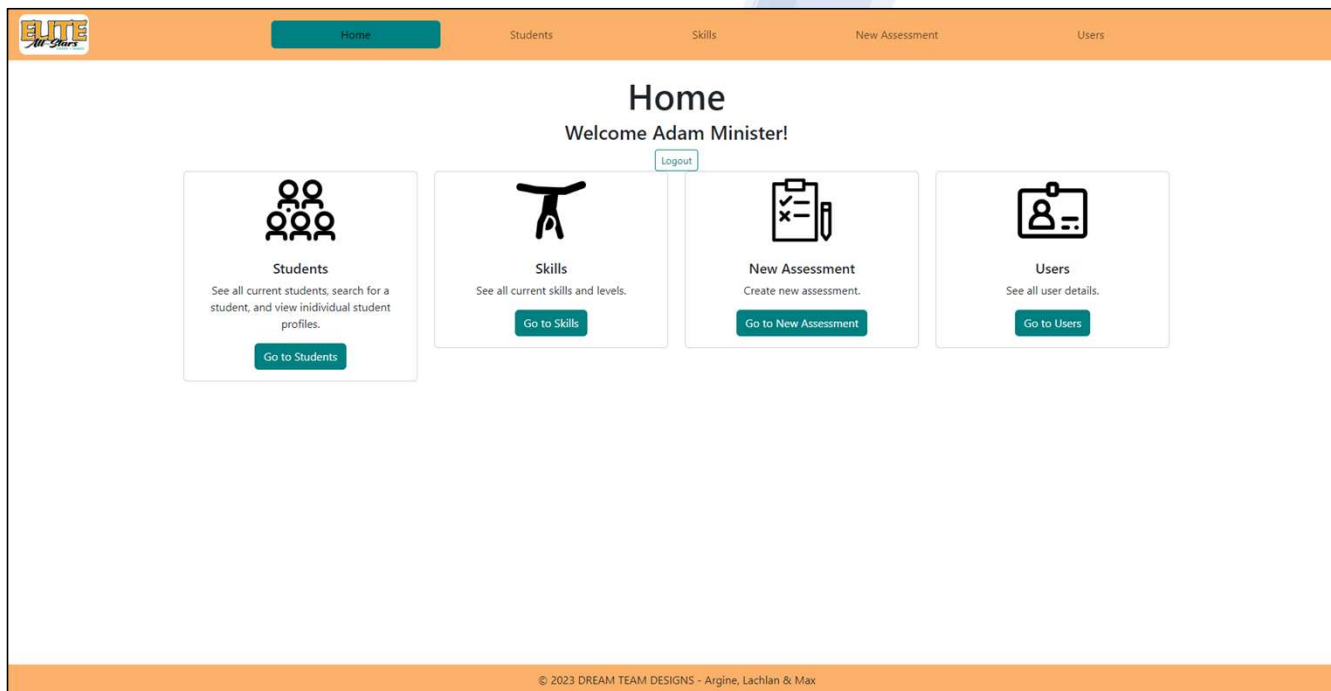
The mobile version of the login page is designed for a smaller screen. It features the 'ELITE All-Stars' logo, the title 'Tumble Skills Tracker Login', and the same username and password input fields with a green 'Login' button at the bottom. The layout is more compact than the web and tablet versions.

# Home Page

- The home page of the website acts as a navigation tool for the admins and coaches to locate the correct pages to fulfill different user stories / functionality.

## User Stories – ‘Features’

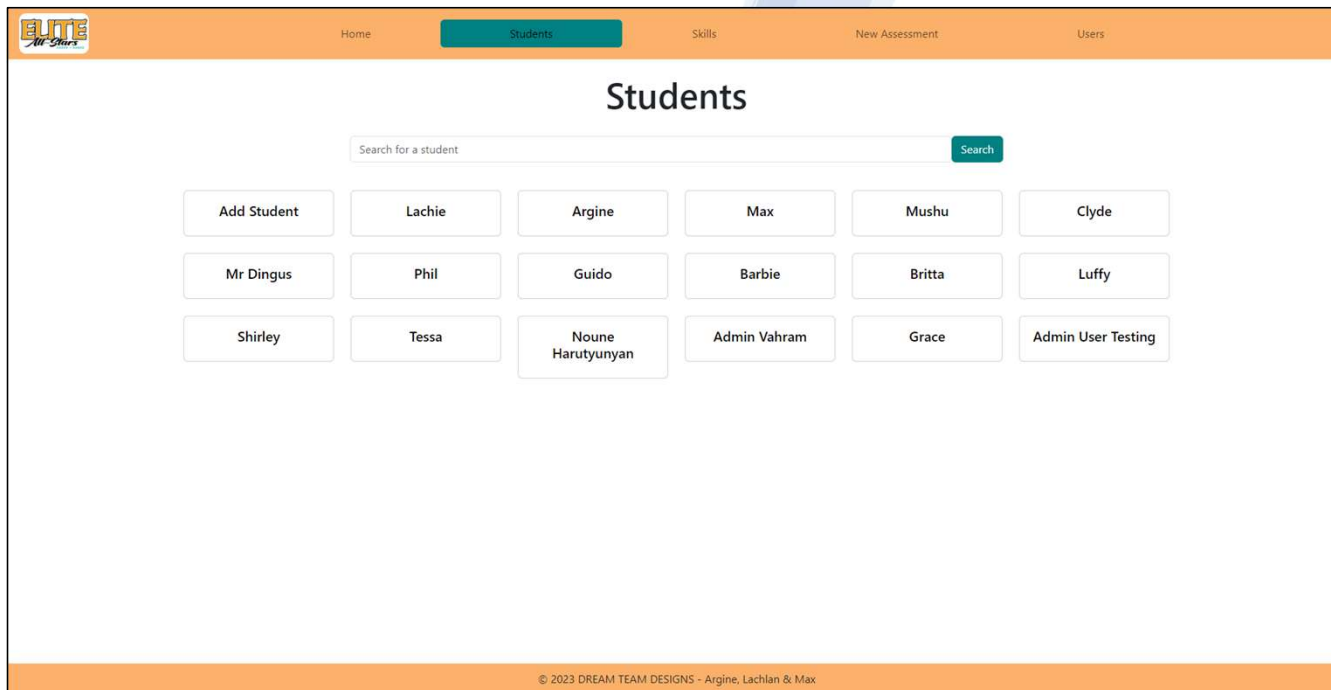
- As an admin I want to store sensitive student information securely – *‘access token needed’*



# Students (All) Page

## User Stories – ‘Features’

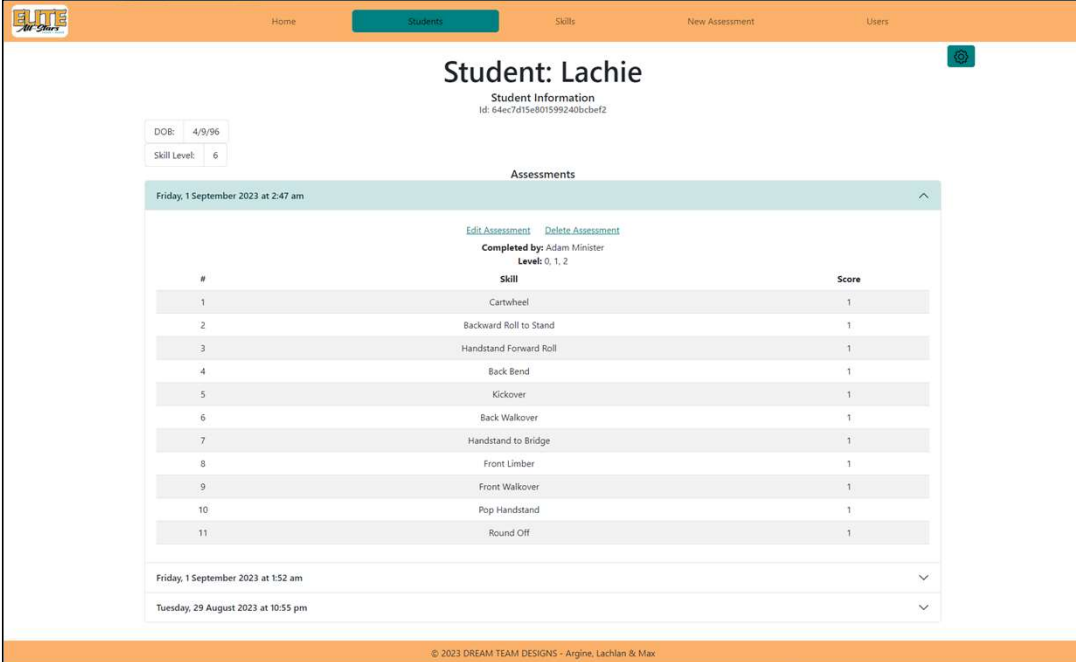
- As a coach I want to be able to view all the current students at the gym – ‘List of students shown’
- As an admin I want to be able to add new students to the database – ‘Add Student’ button



# Student (Individual) Page

## User Stories – ‘Features’

- As a coach I want to view the current level of a student – *‘Skill Level shown on individual student page’*
- As an admin I want to be able to update a student’s details – *‘Edit Student in Admin COG’*
- As an admin I want to be able to delete a student from the database – *‘Delete Student in Admin COG’*
- As a coach I would like to be able to view all the assessments for a given student – *‘Assessments for each student are shown and drop down provides more details’*
- As an admin I would like to be able to edit or delete an assessment. – *‘Edit / Delete Assessments are in the individual assessments are the drop-down box’*



The screenshot displays the 'Student: Lachie' page in a web application. The page has an orange header with navigation links: Home, Students (active), Skills, New Assessment, and Users. Below the header, the student's name 'Lachie' is prominently displayed, followed by 'Student Information' and a unique ID. To the left, there are input fields for 'DOB: 4/9/96' and 'Skill Level: 6'. The main section is titled 'Assessments' and shows a table of skills and scores for a specific date. The table has columns for '#', 'Skill', and 'Score'. The skills listed are Cartwheel, Backward Roll to Stand, Handstand Forward Roll, Back Bend, Kickover, Back Walkover, Handstand to Bridge, Front Limber, Front Walkover, Pop Handstand, and Round Off, all with a score of 1. Above the table, there are links for 'Edit Assessment' and 'Delete Assessment', and text indicating the assessment was 'Completed by: Adam Minister' at 'Level: 0, 1, 2'. The page also shows a date selector for 'Friday, 1 September 2023 at 2:47 am' and a footer with copyright information: '© 2023 DREAM TEAM DESIGNS - Argire, Lachlan & Max'.

Student: Lachie  
Student Information  
Id: 64ec7d15e801399240bc9ef2

DOB: 4/9/96  
Skill Level: 6

Assessments

Friday, 1 September 2023 at 2:47 am

Edit Assessment Delete Assessment

Completed by: Adam Minister  
Level: 0, 1, 2

#	Skill	Score
1	Cartwheel	1
2	Backward Roll to Stand	1
3	Handstand Forward Roll	1
4	Back Bend	1
5	Kickover	1
6	Back Walkover	1
7	Handstand to Bridge	1
8	Front Limber	1
9	Front Walkover	1
10	Pop Handstand	1
11	Round Off	1

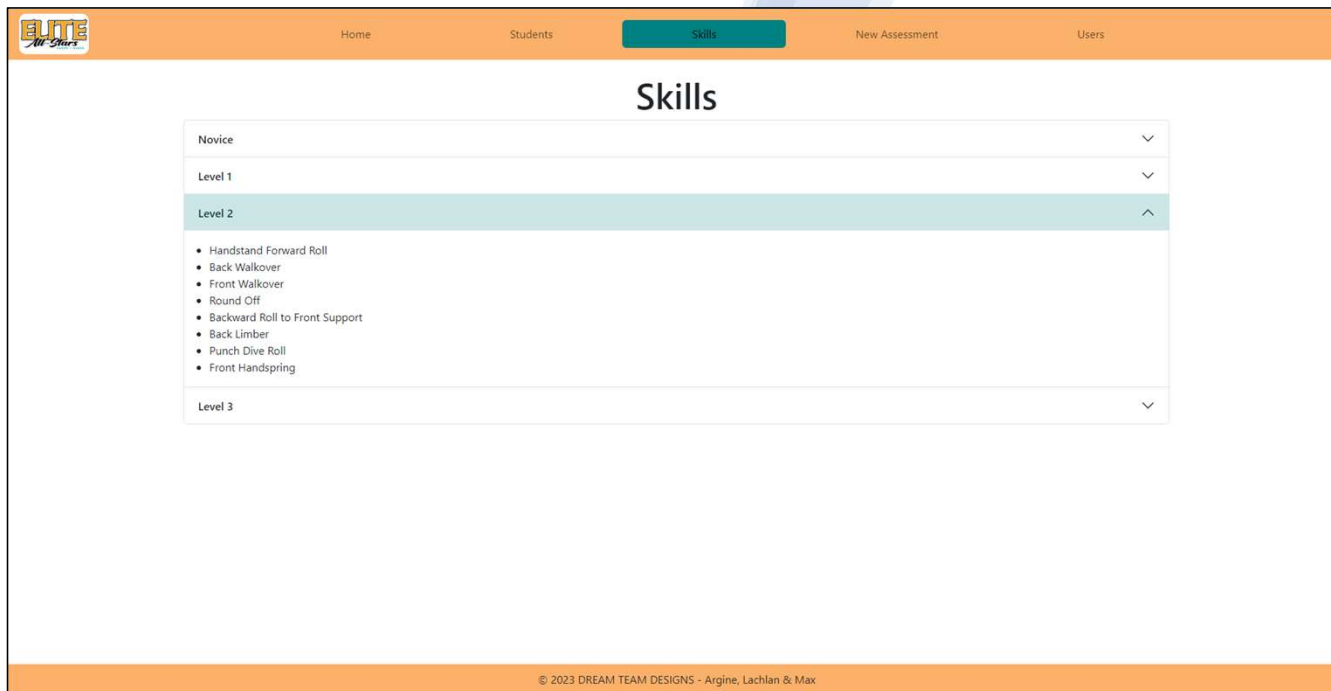
Friday, 1 September 2023 at 1:52 am  
Tuesday, 29 August 2023 at 10:55 pm

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# Skills Page

## User Stories – ‘Features’

- As a coach/admin I want to see a list of all skills – *‘All skills are loaded and show under their Level once the drop down has been clicked’*



# Assessment Pages

## User Stories – ‘Features’

- As a coach I would like to be able to carry out a new assessment on a student – *‘Begin an assessment by searching up a student, clicking their name and selecting a level of assessment’*

Once a coach/admin has completed and submitted an assessment, it takes them to the student’s individual page; which grants access to further user stories / features.

- As a coach I would like to be able to view all the assessments for a given student – *‘Assessments for each student are shown and drop down provides more details’*
- As an admin I would like to be able to edit or delete an assessment. – *‘Edit / Delete Assessments are in the individual assessments are the drop-down box’*

The image displays three screenshots of a web application interface, likely for a gymnastics or sports assessment system. The top screenshot shows the 'New Assessment' page with a search bar for a student and a dropdown for selecting a level. The middle screenshot shows the 'New Assessment' page for a specific student, Lachie, with a list of skills to be assessed. The bottom screenshot shows the 'Assessment' page for Lachie, displaying a table of skills and their corresponding assessment scores.

**New Assessment**

Search for a student:

No skills available for this level.

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**New Assessment**

Lachie

Cartwheel

Backward Roll to Stand

Handstand Forward Roll

Back Bend

Kickover

Back Walkover

Handstand to Bridge

Front Lumber

Front Walkover

Pop Handstand

Round Off

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**Assessment**

Lachie

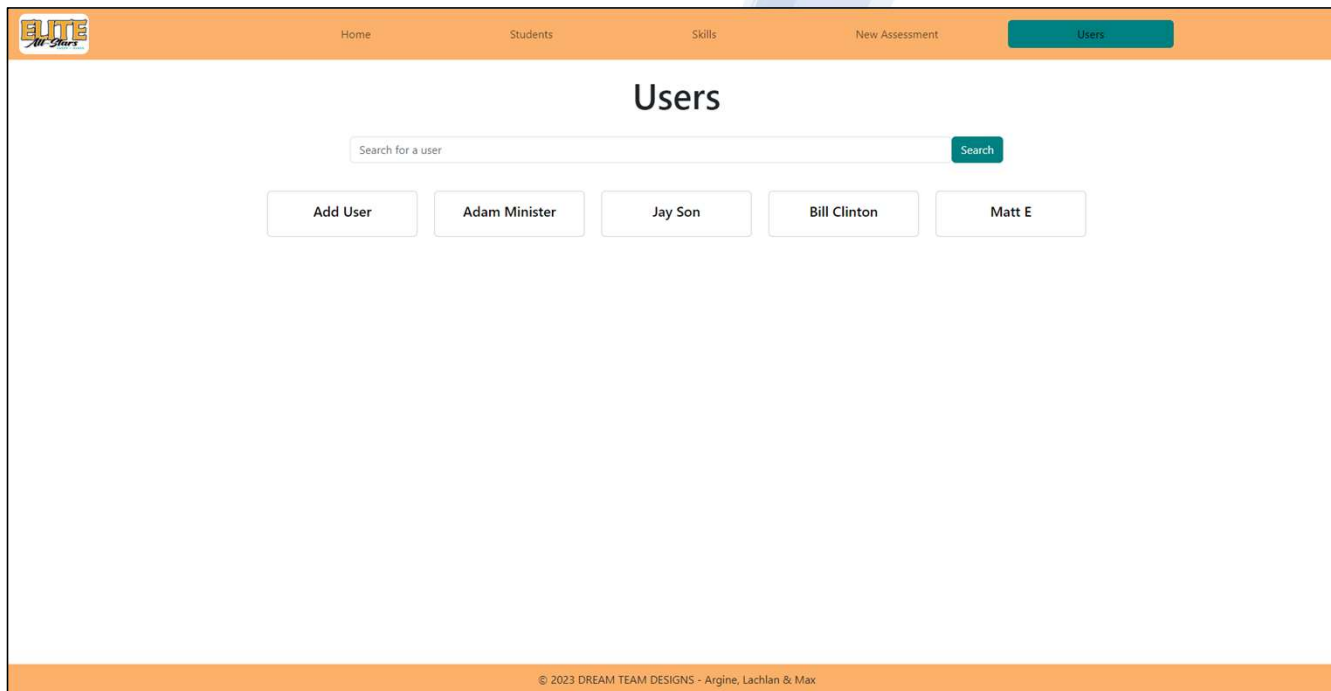
#	SKILL	AT	WT	A	EE	O
1	Cartwheel	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Backward Roll to Stand	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	Handstand Forward Roll	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	Back Bend	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	Kickover	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	Back Walkover	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	Handstand to Bridge	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	Front Lumber	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	Front Walkover	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	Pop Handstand	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11	Round Off	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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# Users Page

## User Stories – ‘Features’

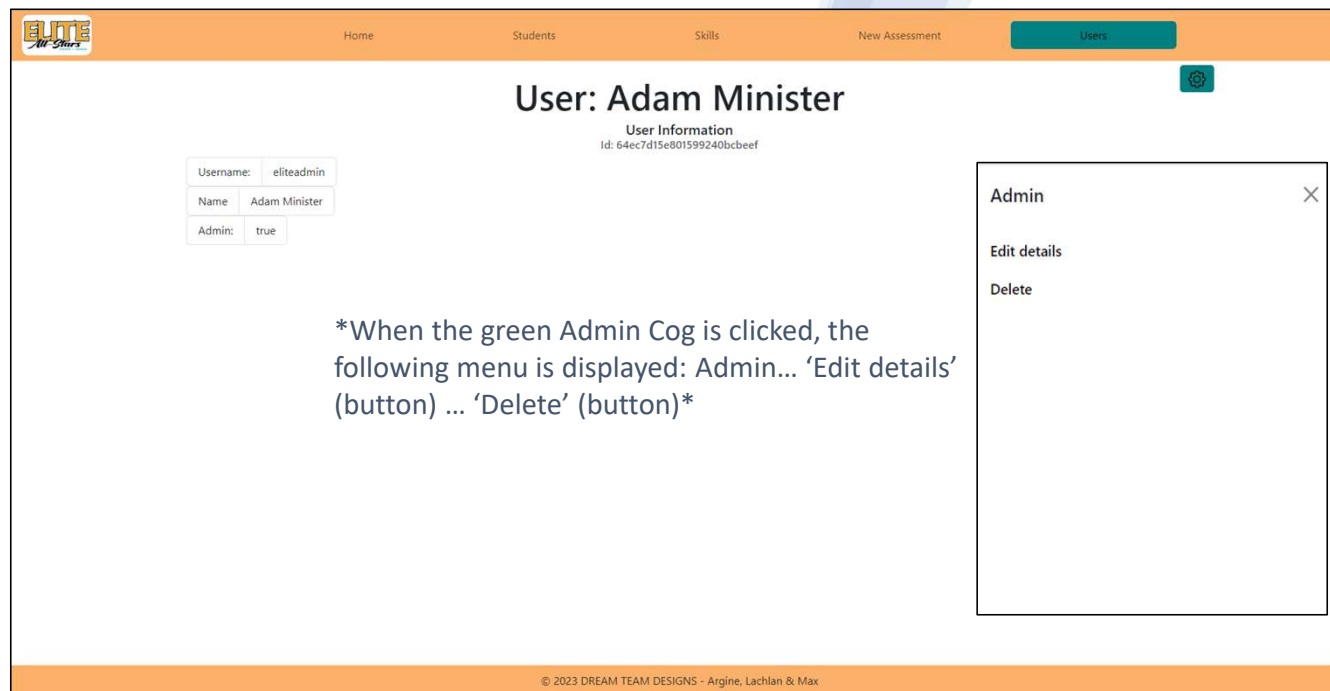
- As an admin I want to be able to add new user to the database – *‘Add User’ button leads to the add new user form*
- As an admin I want to see a list of all users – *‘Upon clicking this page, all users are rendered and searchable’*



# User (Individual) Page

## User Stories – ‘Features’

- As an admin I want to be able to update a user's details – ‘Edit details button in COG’
- As an admin I want to be able to delete a user from the database - ‘Delete details button in COG’





# Development Testing (In conjunction with Trello-board code review)

- The following developer tests were designed to test whether the user stories were being completed/achieved by our app functionality.
- From the User Stories, we created the *Requirements* of the application (what the app will need to do), then created the *Requirement Acceptance Criteria (RAC)* which measured what the application's response will be for both the Front-End and Back-End code to meet the requirements of the user stories.
- It is important to note that the *RAC* first has a user action, then the Front-End/Back-End requirements and finally, it can only result in a Pass or Fail for our development testing.

Development Testing			
User stories	Requirements (What app will do)	Requirement Acceptance Criteria (Response in app)	Result
<b>ENTITY: STUDENTS</b>			
As an admin I want to store sensitive student information securely.	The App shall allow an admin to store sensitive student information.	Upon the admin entering student information, then the App will store the student's information in the 'Students database Collection'.	Pass
As an admin I want to be able to add new students to the database.	The App shall allow an admin to add a new student to the database.	Upon admin clicking 'Add Student' from the student page, then the Front-End will navigate to the 'Add New Student' page, and the Back-End will navigate to the '/students/new' route.  Upon admin submitting the 'Add New Student' Form, then the Front-End will navigate to the students individual page, and the Back-End will send a POST to students (Adding it to the Students database Collection), navigate to the 'students/id' route and a GET for individual student details.	Pass
As a coach I want to be able to view all the current students at the gym.	The App shall display all the current students in the gym (from the database).	Upon a coach navigating to the 'Students' page via the Home page or Navbar, then the Front-End will display the name of all students, and the Back-End will send a GET to access all the student data from the 'Students database Collection'..	Pass
As an admin I want to be able to delete a student from the database.	The App shall allow an admin to delete a student from the database.	Upon an admin clicking on the 'Delete' button on the individual students page, then the Front-End will navigate back to 'Students' page and the student will no longer be displayed, and the Back-End will send a DELETE to remove the student from the 'Students database Collection' and sends a JSON response ("message": "Student deleted successfully").	Pass
As an admin I want to be able to update a student's details.	The App shall allows an admin to update a student's: Name, DOB, Skill Level.	Upon an admin click on the 'Edit details' button on the individual students page, then the Front-End will navigate to the 'Update Student' page, and the Back-End will navigate to the 'students/edit/id' route and sent a GET for the individual student details.  Upon an admin filling out the form and submitting, then the Front-End will navigate back to the students individual page, and the Back-end will send a PUT to update the students details in the 'Students db Collection', navigate to the 'students/id' route and a GET to access the new individual student data from the database.	Pass
As a coach I want to view the current level of a student.	The App shall display a student's current Skill Level.	Upon a coach navigating to an individual students page via the 'Students' page, then the Front-End will display the students details: Name, DOB, Skill Level and Assessments. The Back-End will send a GET to access the individual student data that matches the id from the 'Students database Collection'..	Pass

# Development Testing (In conjunction with Trello-board code review)

Development Testing			
User stories	Requirements (What app will do)	Requirement Acceptance Criteria (Response in app)	Result
<b>ENTITY: ASSESSMENTS</b>			
As a coach I would like to be able to carry out a new assessment on a student.	The App shall allow a coach to start, complete and submit an assessment for a student (and add it to the database).	<p>Upon a coach navigating to the 'Assessment' page via the Home page or Navbar, then the Front-End will display a student search bar and a 'Choose a Level' of assessment button.</p> <p>Upon a coach searching for and selecting a student, then the Front-End selects the student and displays the name instead of the searchbar, and the Back-End will send a GET for student details from the 'Student db Collection'.</p> <p>Upon a coach selecting the level of assessment from the 'Choose a Level' button, then the Front-End will list all the skills within that tumbling level and show the 'Start Assessment' button. The Back-End will send a GET for the selected tumbling levels skills from the 'Skills db Collection'.</p> <p>Upon a coach pressing the 'Start Assessment' button, then the Front-End will navigate to the 'Assessment' Form, which displays the student name, a table of the skills for that assessment with a radio check for each grade level, and the 'submit button'. The Back-End navigates to the '/new/start' route.</p> <p>Upon a coach submitting the students assessment form, then the Front-End will navigate to the students individual page with the new assessment added under assessments. The Back-End will send a POST to the 'Assessments db Collection' with the assessment details for the tested student, navigate to the 'student/id' route, and a GET for both the student's details from the 'Students db Collection' and the student's assessment details from the 'Assessment db Collection'.</p>	Pass
As a coach I would like to be able to view all the assessments for a given student.	The App shall allow a coach to view all assessments for an individual student.	Upon a coach navigating to an individual students page via the 'Students' page, then the Front-End will display the students details: Name, DOB, Skill Level and Assessments (All assessments completed, with further details in a drop-down box). The Back-End will send a GET to access the individual student data that matches the id from the 'Students database Collection' and also a GET to access the assessment data that matches the id from the 'Assessments database collection'.	Pass
As an admin I would like to be able to delete an assessment.	The App shall allow an admin to delete an assessment from the database.	Upon an admin clicking on the 'Delete' button in the Assessment dropdown from the individual students page, then the Front-End will remove the assessment from the page, and the Back-End will send a DELETE to remove the assessment from the 'Assessments database Collection', send a JSON response ("message": "Assessment deleted successfully"), and a GET to access the new assessment data for that student.	Pass
As an admin I would like to be able to amend an assessment where a mistake may have been made.	The App shall allow an admin to update/amend an assessment for a student.	<p>Upon an admin clicking the 'Edit Assessment' button in the Assessment dropdown from the individual students page, then the Front-End will allow admins to change the score for each skill in the assessment by replacing the score with an input field.</p> <p>Upon an admin clicking the 'Save Changes' button, then the Front-End will remove the input field and show the assessment data as normal, and the Back-End will send a PUT to update the students assessment details in the 'Assessment db Collection' and a GET to access the new assessment data for that student.</p>	Pass

# Development Testing (In conjunction with Trello-board code review)

Development Testing			
User stories	Requirements (What app will do)	Requirement Acceptance Criteria (Response in app)	Result
<b>ENTITY: SKILLS</b>			
As a coach I want to see a list of all skills.	The App shall display a list of all tumbling skills (from the database).	Upon a coach navigating to the 'Skills' page via the Home page or Navbar, then the Front-End will display the level of all skills and when clicking into the drop-downs, the list of all skills for that level will be shown. The Back-End will send a GET to access all the skills data from the 'Skills database Collection'.	Pass
<b>ENTITY: USERS</b>			
As an admin I want to be able to add new user to the database.	The App shall allow an admin to add a new user to the database.	Upon admin clicking 'Add User' from the user page, then the Front-End will navigate to the 'Add New User' page, and the Back-End will navigate to the 'users/new' route.  Upon admin submitting the 'Add New User' Form, then the Front-End will navigate to the users individual page, and the Back-End will send a POST to users (Adding it to the 'Users database Collection', navigate to the 'users/id' route and a GET for individual user details.	Pass
As an admin I want to be able to update a user's details.	The App shall allow an admin to update a user's: Username, Name, Admin status/privilege.	Upon an admin click on the 'Edit details' button on the individual users page (found in admin cog), then the Front-End will navigate to the 'Update User' page, and the Back-End will navigate to the 'users/edit/id' route and sent a GET for the individual user details.  Upon an admin filling out the form and submitting, then the Front-End will navigate back to the users individual page, and then Back-end will send a PUT to update the users details in the 'Users db Collection', navigate to the 'users/id' route and a GET to access the new individual user data from the database.	Pass
As an admin I want to be able to delete a user from the database.	The App shall allow an admin to delete a user from the database.	Upon an admin clicking on the 'Delete' button on the individual users page (found in admin cog), then the Front-End will navigate back to 'Users' page and the user will no longer be displayed, and the Back-End will send a DELETE to remove the user from the 'Users database Collection' and sends a JSON response {"message": "User deleted successfully"}.	Pass
<b>MISCELLANEOUS</b>			
As an admin/coach I want to be able to login to the App.	The App shall allow an admin or coach to login to the App.	Upon an admin entering a valid Username, Password and pressing the 'Login' button, then the Front-End will navigate to the 'Home' page, and the Back-End will send a POST, validate whether the user details (username, password) are correct and the admin status from the 'Users database collection', generate an access token and navigate to the '/' route.	Pass
As an admin/coach I want to be able to logout of the App.	The App shall allow an admin or coach to logout of the App.	Upon an admin pressing the 'Logout' button on the Home page, then the Front-End will navigate to the 'Login' page.	Pass



# Production Testing

- The following production testing was completed after an initial draft of the website had been finished and both the front-end and back-end of the website were deployed.
- Several users were tested to gain usability feedback and find any bugs (Elite All-Stars Coaching Staff, IT professionals, Regular users and peers).
- Users were assigned various tasks (created to touch on all user stories functionality) and were able to give a usability rating (Excellent, Good, Average, Bad, Terrible), along with extra user comments to for further feedback.
- *Note: The developer decisions column was made for members of the dev team to comment on feedback and decide whether to implement changes (test users did not see this column).*

User Testing: 'name'			
User Tasks (Created from User Stories)	Usability Ratings	User Comments	Developer Decisions
<b>TESTING: COACHES (Non-Admin Functionality)</b>			
As a coach, login to the Tumble Skills Tracker.			
<b>Students</b>			
Navigate to the students page.			
Search for the Student 'Lachie' using the student searchbar feature.			
Click into the student profile for 'Lachie'.			
View the assessments completed by the student 'Lachie'.			
<b>Skills</b>			
Navigate to the Skills page.			
Click into the different skill levels to view the list of tumbling skills.			
<b>New Assessment</b>			
Navigate to the new assessment page.			
Use the searchbar to find and select the student 'Lachie'.			
Choose a level of assessment for the student 'Lachie' and start the assessment.			
Fill out the assessment form, grading each skill and submit the assessment.			
View the newly created assessment results in the 'Lachie' student page and find the grades for each skill.			
As a coach, logout of the Tumble Skills Tracker.			

# Production Testing (Continued)

User Testing: 'name'			
User Tasks (Created from User Stories)	Usability Ratings	User Comments	Developer Decisions
<b>TESTING: ADMIN</b>			
As an admin, login to the Tumble Skills Tracker.			
<b>Students</b>			
Navigate to the students page using the navigation bar.			
Create a student with the following details:			
Name: 'User Testing', DOB: 24/08/14 and Skill Level: 1			
Navigate back to the students page through the home page cards.			
Find the student 'User Testing' and update their name to 'Admin User Testing', and Skill Level to '2'.			
<b>Skills</b>			
Navigate to the Skills page and view all the 'Level 3' skills.			
<b>New Assessment</b>			
Navigate to the new assessment page, select the 'Admin User Testing' student and start a Level 3 Assessment.			
Grade all skills in the assessment as 'EE' and submit the assessment.			
Edit the 'Admin User Testing' students most recent assessment and change the grade for the 'Punch Dive Roll' and 'Round Off Back Handspring Series' to 4 and save the changes.			
Navigate to the students page, find the student 'Lachie' and delete his most recent assessment.			
<b>Users</b>			
Navigate to the users page.			
Create a new user with the following details:			
Name: 'Matt E', Username: 'Mr Robot', Password: 'CoderAcademy', Admin: 'True'			
Navigate to the home page and logout of the Tumble Skills Tracker App.			
Login as the recently created user 'Matt E' (username and password above).			
Navigate to the individual user page for 'Matt E'.			
Change the password from 'CoderAcademy' to 'GraduatingCA'.			
Create a new user with details of your choice, then delete the user.			
As an admin (Matt E), logout of the Tumble Skills Tracker			

# Production Test Example - Jelena

- The following user test completed by Jelena is an example of one of the user tests we conducted for the Tumble Skills Tracker application (screenshots of the other tests are included in the README.md file)

User Tasks (Created from User Stories)	Usability Ratings	User Comments
<b>TESTING: COACHES (Non-Admin Functionality)</b>		
As a coach, login to the Tumble Skills Tracker.	Excellent	I miss-typed the password, it gave a 'wrong username or password' message but upon re-entering the password it worked.
<b>Students</b>		
Navigate to the students page.	Excellent	It was very easy to find via the top banner.
Search for the Student 'Lachie' using the student searchbar feature.	Excellent	I liked the options of being able to search for a student or simply click on their name in the square boxes.
Click into the student profile for 'Lachie'.	Excellent	N/A
View the assessments completed by the student 'Lachie'.	Excellent	I like that the tests are presented in chronological order and I like the drop-down menu functionality.
<b>Skills</b>		
Navigate to the Skills page.	Excellent	Very easy to find via the top banner.
Click into the different skill levels to view the list of tumbling skills.	Excellent	Skills are listed very clearly underneath the skill categories, also liked the drop-down menu functionality here.
<b>New Assessment</b>		
Navigate to the new assessment page.	Excellent	Very easy to find via the top banner.
Use the searchbar to find and select the student 'Lachie'.	Excellent	I like that a drop-down menu appears with the suggested student as you type more of their name--convenient.
Choose a level of assessment for the student 'Lachie' and start the assessment.	Good	I typed Lachie into the search bar and his name appeared, but in order to start a new assessment I didn't realise I had to click on his name for the 'Start Assessment' button to appear. The fact that I had to click on a name was more obvious though when there were more names in the drop-down suggestions list.
Fill out the assessment form, grading each skill and submit the assessment.	Good	The form was very easy to fill out, however, as a layman person I wasn't sure what the rating scale was because acronyms/short hand was used. This would probably not be an issue though for the actual users of this program because they are likely to be familiar with these acronyms/short hand words.
View the newly created assessment results in the 'Lachie' student page and find the grades for each skill.	Good	The chronological list makes it very easy to find the latest assessment and to access a summary of the assessment.
As a coach, logout of the Tumble Skills Tracker.	Average	I did find it a bit strange the position of the log-out button, I would prefer it to be either at the bottom of the screen or in the top right-hand corner of the screen.

# Production Test Example – Jelena (Continued)

<b>TESTING: ADMIN</b>		
As an admin, login to the Tumble Skills Tracker.	Excellent	N/A
<b>Students</b>		
Navigate to the students page using the navigation bar.	Excellent	Very easy to find via the top banner.
Create a student with the following details: Name: 'User Testing', DOB: 24/08/14 and Skill Level: 1	Excellent	Very easy to follow, the kind of input menu I would generally encounter on a website. I particularly liked how easy it was to fill in the DOB.
Navigate back to the students page through the home page cards.	Excellent	Very easy to find via the top banner.
Find the student 'User Testing' and update their name to 'Admin User Testing', and Skill Level to '2'.	Excellent	I found it intuitive clicking on the setting cog icon in order to edit the student.
<b>Skills</b>		
Navigate to the Skills page and view all the 'Elite Level' skills.	Excellent	Very easy to find via the top banner.
<b>New Assessment</b>		
Navigate to the new assessment page, select the 'Admin User Testing' student and start a Level 3 Assessment.	Excellent	Very easy to find via the top banner.
Grade all skills in the assessment as 'EE' and submit the assessment.	Excellent	Very easy to fill out, I like the multiple-choice selection buttons.
Edit the 'Admin User Testing' students most recent assessment and change the grade for the 'Punch Dive Roll' and 'Round Off Back Handspring Series' to 4 and save the changes.	Excellent	The 'edit' function was really easy to find because it was right there as soon as I clicked open the assessment. It was very easy to look down the list of skills and adjust the rating.
Navigate to the students page, find the student 'Lachie' and delete his most recent assessment.	Good	The 'delete' function was really easy to find because it was right there as soon as I clicked open the assessment. However, once I delete an assessment, I would prefer if the next assessment did not automatically expand (it should stay collapsed).
<b>Users</b>		
Navigate to the users page.	Excellent	Very easy to find via the top banner.
Create a new user with the following details: Name: 'Matt E', Username: 'Mr Robot', Password: 'CoderAcademy', Admin: 'True'	Excellent	Very easy to find the new user option at the start of the list.
Navigate to the home page and logout of the Tumble Skills Tracker App.	Excellent	Very easy to find via the top banner and the log-out button on the home screen is front and center, even though I would prefer it to either be at the bottom of the page or in the top-right hand corner of the page.
Login as the recently created user 'Matt E' (username and password above).	Excellent	Super easy to log in, it all worked!
Navigate to the individual user page for 'Matt E'.	Excellent	Very easy to navigate to using the top banner.
Change the password from 'CoderAcademy' to 'GraduatingCA'.	Excellent	I found this very intuitive and straight forward.
Create a new user with details of your choice, then delete the user.	Excellent	Very easy to do, especially now that I am a bit more familiar with the layout and functionality of the site for an Admin.
As an admin (Matt E), logout of the Tumble Skills Tracker	Excellent	Very easy.



# Formal Testing Framework

## Front-End Tests

```
✓ src/tests/Skills.test.jsx (3) 438ms
✓ src/tests/Users.test.jsx (5)
✓ src/tests/Students.test.jsx (2)
✓ src/tests/Assessments.test.jsx (6)
✓ src/tests/App.test.jsx (3)
✓ src/tests/Login.test.jsx (13) 2372ms
```

```
Test Files 6 passed (6)
Tests 32 passed (32)
Start at 13:15:32
Duration 4.43s
```

% Coverage report from v8

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	78.43	70.94	33.98	78.43	
api	28.9	75	16.66	28.9	
api.js	24.16	75	16.66	24.16	17-19,23-39,42-58,61-76,79-99,102-118
endpoints.js	100	100	100	100	
components	77.6	59.09	34.09	77.6	
AddCard.jsx	100	100	100	100	
AdminMenu.jsx	86	100	25	86	21-27
App.jsx	91.35	50	100	91.35	30-33,37-39
ContentCard.jsx	100	100	100	100	
Footer.jsx	100	100	100	100	
GetLevel.jsx	74.46	28.57	12.5	74.46	14-19,35-40
GetStudent.jsx	86.48	50	50	86.48	15-17,21-22
LogoutButton.jsx	78.04	40	33.33	78.04	12-16,19-20,24-25
NavBar.jsx	100	100	100	100	
SearchText.jsx	77.41	50	25	77.41	19-25,28-31,36-38
StartButton.jsx	71.42	50	50	71.42	12-18,23-25
StudentCard.jsx	100	100	100	100	
SubmitAssessment.jsx	50	50	33.33	50	15-35,37-41,46-48
UserCard.jsx	100	100	100	100	
ViewAssessments.jsx	63.91	85.71	9.09	63.91	12-21,30-34,38-50,54-61,65-67,71-83,148-165
routes	84.55	77.94	34.61	84.55	
AddStudent.jsx	63.55	28.57	8.33	63.55	23-56,60-63,67-69,102-103
AddUser.jsx	73.84	100	16.66	73.84	25-58
EditStudent.jsx	75	57.14	8.33	75	28-33,39-41,45-48,52-53,57-72
EditUser.jsx	79.24	80	16.66	79.24	24-25,31-32,36-37,41-42,46-47,51-62
Home.jsx	100	100	100	100	
Login.jsx	92.3	93.33	100	92.3	40-45,56-57
NewAssessment.jsx	82.92	40	100	82.92	19-25
Skills.jsx	97.56	85.71	100	97.56	17-18
StartAssessment.jsx	88.76	100	50	88.76	26-35
StudentProfile.jsx	82.27	75	50	82.27	21-29,36-40
Students.jsx	100	100	100	100	
UserProfile.jsx	100	100	100	100	
Users.jsx	100	100	100	100	
tests	100	100	100	100	
TestSetup.js	100	100	100	100	

```
PASS Waiting for file changes...
press h to show help, press q to quit
```

## API Back-End Tests

```
PASS tests/skills.test.js
PASS tests/users.test.js
PASS tests/students.test.js
PASS tests/assessments.test.js
PASS tests/auth.test.js
```

A worker process has failed to exit gracefully and has been force exited. This is likely caused by tests leaking due to improper teardown. Try running with --detectOpenHandles to find leaks. Active timers can also cause this, ensure that .unref() was called on them.

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	68.48	52.27	77.41	68.35	
src	100	100	100	100	
app.js	100	100	100	100	
db.js	100	100	100	100	
src/routes	65.11	52.27	75	65.11	
admin.js	75	50	100	75	9,19-23,32,41,50,59,64
assessment_routes.js	53.65	25	66.66	53.65	17,31-34,48-51,66,72-84,90-98
auth.js	80	75	100	80	20,29-30
skill_routes.js	90	87.5	100	90	13,51,60-61
student_routes.js	51.28	33.33	50	51.28	13,19-24,30-38,54-63
user_routes.js	54.16	50	66.66	54.16	15,26,46-58,64-88,102

```
Test Suites: 5 passed, 5 total
Tests: 37 passed, 37 total
Snapshots: 0 total
Time: 3.537 s, estimated 4 s
Ran all test suites.
```

### Watch Usage

- > Press f to run only failed tests.
- > Press o to only run tests related to changed files.
- > Press p to filter by a filename regex pattern.
- > Press t to filter by a test name regex pattern.
- > Press q to quit watch mode.
- > Press Enter to trigger a test run.





Thank you for your cooperation working alongside Dream Team Designs.

We hope you are satisfied with the presentation and the Tumble Skills Tracker App we built.