

IT 314
Software Engineering
Lab 3

Track Management System

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Viewer's User Stories:

1- Front of card:

"As a viewer, I want to have access to the activity calendar so that I can review the timelines."

Back of card:

1. I will not be able to change the calendars.

2-Front of card:

"As a viewer, I want to have search access for Tracks so that I can analyze the track."

Back of card:

1. I will not be able to change any of the track details.
2. in case there's no track present then the result will display empty.
3. If there is more than one track with the same name/searching string then the result will show all of them.

3-Front of card:

"As a viewer, I want to have access to view leaderboards. So that I can analyze participants."

Back of card:

1. I will not be able to change any details of the track.
2. In case there's no participant then the result will display empty.

4-Front of card:

*"As a viewer, I want to have access to search for a person/team name in the leaderboards.
So that I can analyze participants."*

Back of card:

- I will not be able to make changes in the leaderboard.
- In case there's no participant/team then the result will display empty..

5-Front of card:

“As a viewer, I want to have access to view the homepage of a particular track. So that I can review the track.”

Back of card:

1. I will not be able to change any details of the track.
2. In case there's no participant then the result will display empty.

6-Front of card:

“As a viewer, I want to have access to view the questions of the track so that I can solve them in my personal IDE.”

Back of card:

1. I will not be able to change any details of the question.
2. I will not be able to download input files.
3. I will not be able to compare ground truth and output files.

7-Front of card:

“As a viewer, I want to be able to search profiles of registered users on websites so that I can analyze participant progress.”

Back of Card:

1. I will not be able to change the profile of an individual.
2. If there's no person matching with the search string then the result will display empty.

Track Organizer's user stories

1) Front of card:

"As a Track organizer, I want to add a track, so that I can organize an event"

Back of the card:

1. Capture the track details like track description, and the necessary data sets, duration of contest, start time of contest .
2. Verify that the organizer is signed in.
3. Verify that the admin accepts the request of adding the track.
- 4.

2) Front of card:

"As a Track organizer, I want to edit track details so that I can make changes to an existing track "

Back of card:

1. Capture the change in track details
2. Verify the organizer is signed in
3. Verify the organizer has access to the track
4. Verify the track exists.

3) Front of card:

"As a Track organizer , I want to add evaluation metrics so that the solutions of the participants can be evaluated."

Back of the card:

1. Capture the additional evaluation metric.
2. Verify that the evaluation metric matches with the data set type.
3. Verify the organizer is signed in

4. Verify the organizer has access to the track.

4) Front of card:

"As a track organizer, I want to have access to view leaderboards so that i can analyze the participants"

Back of the card

1. Verify the organizer is signed in.
2. Verify there exists a track name similar to the requested one.

5) Front of card:

" As a Track organizer, I want to view track details so that I can edit it if needed."

Back of card:

1. Verify the organizer is signed in

6) Front of card:

"As a Track organizer ,I want to be able to Sign in so that I can access my account."

Back of card:

1. Confirmation

Success:

1. "Remember me" ticked : store cookie for automatic login next time.
2. "Remember me" not ticked : Force login next time.

Failure:

1. "Email address format not correct".
2. "Entered email address is wrong".
3. "Entered Password is incorrect".
4. "Not the Track organizer details".

Admin User stories:

1. Front of card:

"As an Admin, I want to be able to Sign in so that I can access my account."

Back of card:

Confirmation

Success:

1. "Remember me" ticked : store cookie for automatic login next time.
2. "Remember me" not ticked : Force login next time.

Failure:

1. "Email address format not correct".
2. "Entered email address is wrong".
3. "Entered Password is incorrect".
4. "Not a admin user details".

2. Front of card:

"As an Admin , I want to be able to View Leaderboard so that I can have information about ongoing and finished tracks."

Back of card:

1. Confirmation
2. Leaderboard is displayed

3. Front of the card:

"As an admin, I want to be able to manage user accounts, including adding new users, modifying existing accounts, and deleting accounts when necessary so that I can keep the user details updated."

Back of the card:

Success:

1. Add new users if they have valid signing up credentials for new users.

2. They have filled all the required parameters for signing up for new users.
3. “Log in successfully” if they have passed all the requirements.
4. Modify and monitor existing user details such as score and number of events, submissions and progress based on their performance and participation.

Failure:

1. Invalid log-in/sign-in credentials.
2. If the user forgets password then send password reset mail to its gmail account by using the option of forgot password.

4.) Front of the card:

“As an admin, I want to be able to approve or reject problem submissions, so that they meet the quality and difficulty standards of the platform. “

Back of the card:

1. Review the submissions and approve them according to the requirements of the problem.
2. Notify the user/participant regarding the status of his solution.
3. Update the user metrics based on his submissions.

5.) Front of the card:

“As an admin, I want to be able to manage the platform's content, including adding problems and updating the problem bank and removing irrelevant problems so that the platform stays updated and diversity of problems.”

Back of the card:

1. Add problems to the platform from the track organized and completed.
2. Remove irrelevant and redundant information and content from the track.
3. Updating the metrics on submissions of the available problem bank.

6.) Front of the card:

“As an admin, I want to be able to monitor the performance and health of the platform, including server status ,security and privacy features so that the user doesn't experience any difficulty.”

Back of the card:

1. Track should be able to handle a significant amount of user traffic.
2. The user data should be stored securely and implement privacy.

7.)Front of the card:

“As an admin, I want to be able to communicate with users through emails and platforms so that I can provide updates, learn from feedback, and support.”

Back of the card:

1. Provides email-ID's on platform for users and organizers to provide feedback and contact for any type of support and guidance to use the platform.
2. Keep basic documentation for usage and solution to common platform issues.
3. Focus on the relevant feedbacks and make necessary changes and improve the platform.

8.)Front of the card:

“As an admin, I want to be able to generate reports and analytics on platform usage, user behavior, and contest performance so that the user and organizer can access it for their learning and helping the platform for future development and decision-making.

Back of the card:

1. Develop data and analytics based on the track event and make it available for the organizers and users.
2. Focus on the platform performance in a live track and make necessary changes for improvements by generating the performance history during a track.

9.)Front of card:

"As an admin, I should be able to delete any track as needed to manage data properly and efficiently."

Back of card

Success:

"Track deleted Successfully"

Failure:

Invalid Track id

10.)Front of Card:

"As an admin, I should be able to update any track details to manage tracks properly"

Back of card

Success :

"Track Details Updated Successfully"

Failure:

Invalid Track id

Participant User Stories:

1. Front of card:

"As a participant, I want to have access to the activity calendar so that I can review the timelines."

Back of card:

2. I will not be able to change the calendars.

2. Front of card:

"I want a feature where if I lose my password , then I am allowed to login through my trusted device where I had already signed in using some form of passcode to recognize it is a valid account owner attempting to sign in"

Back of card:

Success:

1. If the user enters the correct Username/Email and password.

Failed:

1. User enters a wrong password several times and is presented a way to try other ways to sign in.
2. User is presented with two ways , either use a phone and passcode to sign in or to reset password through email.
3. If a user enters a wrong code , the option to sign in through phone is revoked and then is asked to reset password through email.

3. Front of card:

"As a Participant I want to Login to the platform."

Back of card:

Success -

1. Participant will be redirect to Home Page of the platform
2. Remember me ticked - store cookies/ next time autologin
3. Remember me not ticked - repeat login next time

4. Front of card:

"I want simple interface and easy navigation for competition's list"

Back of card:

1. The pages can have a minimalistic background with highlighted buttons so as to draw attention to correct options with correct labeling on them.
2. The competition list and ongoing competitions can be shown on the left hand scrollable tab with its own scroll bar.
3. The leaderboard top 3 participants can be shown on the right tab.

5. Front of card:

"I want a clear and in-detail leaderboard for all participants for a particular competition. what factors are responsible for ranking must be given with deep details."

Back of card:

1. This can be done when a user clicks on a particular competition , then user will be redirected to a competition's landing page where a short description of competition will be displayed and then the page will show the top few participants and user's current position.
2. For ranking details , a hyperlink will be put on top of the leaderboard as 'Ranking FAQ(s)' which will redirect users to a page explaining all sorts of ranking criteria used for judgment.

6. Front of card:

"I want a list of all the competitions from the past few years(5-7 years)."

Back of card:

1. A drop down tab named 'Past competitions' can be used which will show all competitions from the past 7 years.
2. If the competition is older than that , then users can click on 'More older competitions' to see a list of competitions sorted yearwise.

7. Front of card:

"I want all details of prize distribution"

Back of card:

1. A page can be created for each competition which has finished to check if the results have been declared. For this, a link can be added named as 'Standings' or 'Results'
2. If the competition is going on then the result will not appear and it will show a timer for remaining time.
3. If the result has not been declared then it will show that the 'Result has not been declared' .
4. If the result has been declared then it will show a result page along with prizes which have been distributed to them.

8. Front of card:

"I want clear details of learning from this particular competition and any further opportunities given from the host of that particular competition. (like intern or job interviews opportunities etc)"

9. Front of card:

"I want clear rules and guidelines for competition."

10. Front of card:

"As a viewer, I want to be able to search profiles of registered users on websites so that I can analyze participant progress."

Back of Card:

1. I will not be able to change the profile of an individual.
2. If there's no person matching with the search string then the result will display empty.

Sprints:

Sprint 1

1. Develop a basic UI with access to activity calendar and track search functionality for viewers.

Sprint 2

1. Implement user authentication and authorization system.
2. Create an activity calendar and allow viewers to view it.
3. Allow viewers to search for tracks and view track details.
4. Allow viewers to view the homepage of a track.

Sprint 3

1. Create leaderboards and allow viewers to view them.
2. Allow viewers to search for participants or team names in the leaderboards.
3. Allow track organizers to add a new track.
4. Allow track organizers to edit track details.

Sprint 4

1. Allow track organizers to add evaluation metrics.
2. Allow track organizers to view track details.
3. Allow admin to view the leaderboard.
4. Allow admin to manage user accounts.

Sprint 5

1. Allow viewers to view questions of a track.
2. Allow track organizers to view leaderboards.
3. Allow admin to approve or reject problem submissions.