Sprint 4 Report

Team Tech Ballers

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System Functionality at the End of Sprint 4

At the conclusion of Sprint 4, our app achieved significant progress in functionality and user experience, thanks to the successful implementation of most planned user stories across all sprints. Below is a detailed summary of the system's current functionality, incorporating the work completed in all four sprints:

1. Redesigned Tours and Content Updates: Based on client feedback, we refined tours by updating images for better relevance and removed outdated demo tours.
- **Pre-condition:** The client provided updated images and identified content to be removed.
- **Post-condition:** The app displays the most accurate and visually appealing images for each POI, and demo tours no longer needed are removed.

2. Read More Feature: As a user, I would like to access more detailed information about a POI by clicking the "Read More" link, so I can explore additional content relevant to the POI.
- **Pre-condition:** Each POI in the app has a description and a "Read More" button.
- **Post-condition:** Clicking the "Read More" button for a POI redirects the user directly to a detailed article specific to that POI on the CT Explored website.

3. Text-to-Speech for POI Descriptions: As a user, I would like to implement text-to-speech for POI descriptions.
- **Pre-condition:** The app provides a list of POI with descriptions.
- **Post-condition:** Users can activate text-to-speech for any POI description.

4. **Instagram Linkage:** As a user, I want to press the Instagram button and be redirected to the Instagram login page.
- **Pre-condition:** The user has tapped the Instagram button.
- **Post-condition:** The app redirects the user to Instagram's login page.

5. **App Usage Tutorial:** As a user, I would like a tutorial that explains how to navigate and use the app effectively, so I can make the most of its features.
- **Pre-Condition**: The user is new to the app and may not know how to navigate its features.
- **Post-Condition**: The app provides a 4-slide tutorial guide that explains:

  - How to navigate through tours.
  - How to access POI descriptions.
  - How to activate the text-to-speech feature.
  - How to link to Instagram for additional engagement.

6. **Leaderboard/Prize Tutorial:** As a user, I would like a tutorial explaining the leaderboard points system and how to claim prizes, so I can track my progress and redeem rewards.
- **Pre-Condition**: The user is viewing the leaderboard but does not understand how to earn points or claim prizes.
- **Post-Condition**: The app provides a 3-slide tutorial guide that explains

  - How to earn points (e.g., one Instagram post = 5 points)
  - How to track points on the leaderboard.
  - How to claim prizes via a link that redirects to a form on the website

7. **Recommended Tour Modes:** As a user, I want the app to recommend the best mode of transportation (e.g., walking, biking, or driving) for each tour to fit my preferences.

- **Pre-condition:** The user selects a tour.
- **Post-condition:** A suggested mode of transportation is displayed based on tour distance and terrain.

These features enhance the app making it more interactive and easier to use.

Lessons Learned:

- Addressing complex user stories earlier in the sprint lifecycle could have helped avoid the delays faced with navigating between POIs.
- Collaborative problem-solving during the development of the tutorial feature ensured smooth implementation and successful delivery within the sprint timeframe.
- Breaking down complex tasks into smaller subtasks helped streamline the implementation process for features like the tutorial.

What We Would Do Differently Next Time

- Begin high-priority and technically complex user stories earlier in the sprint lifecycle to allow ample time for testing and debugging.
- Conduct more frequent team reviews to identify potential bottlenecks early.

Unimplemented User Stories

1. **Navigating Between POIs**: This story remains unimplemented due to time constraints and technical complexity.

2. **Configure Accessibility Settings for Easy Navigation**: This story is low priority and remains unimplemented due to the need for more research into accessibility features such as text resizing and color contrast adjustments. Additionally, implementing a user-friendly interface for configuring these settings would require development time we could not spare.

New User Stories We Would Consider Adding

1. As a user, I would like to see where I am on the map so that I can see where I am in relation to the POIs and navigate the tour easier.

   This feature would improve the user experience by providing real-time location tracking on the map, allowing users to better orient themselves during the tour. It would also allow them to stay within the app more often instead of using their map application.

2. As a developer, I would like to organize all tours inside of a database so that it makes it easier to manage, find, update, and implement new features.

   This feature would improve the developer experience by allowing them to easily edit, update, and maintain. It would also help to implement new features such as filtering or sorting the tours through straightforward database queries, enhancing efficiency and scalability.