CS 30700

Team 9: Product Backlog  
**Travelin**

**Team Members**

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**Problem Statement**

In these nascent, stressful years of college life, you should find time to relax. In a university like Purdue, finding friends to travel with can be a challenging task, as they may not share the same interests as you. While platforms to plan your trips do exist, namely Penroads and Reddit, these are hard to curate, making it difficult for users to trust the people they find on there. We want to make an app for Purdue students which not only fosters trust but also helps them find travel buddies and plan their next vacation.

**Background Information**

* **Audience:** Travelin is aimed at Purdue students primarily. Because Purdue is a large university, it is often difficult to find friends. Even if you do, it is not always the case that their travel plans and interests match yours.
* **Similar platforms:** Penroads and Reddit allow users to find travel partners and message them. We plan to implement these features. The main advantage of Travelin over these services isthat it is focused on a specific audience and is targeted solely to help people travel and attend events together.
* **Limitations:** The existing platforms are helpful, but they do not have all the features that a traveler wants. We believe that college students are more likely to be outgoing and are more social. Our goal is to help college students travel wherever they want to without worrying about traveling alone as they will be able to easily find fellow Purdue students as travel companions.

**Functional Requirements**

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| **Backlog ID** | **Functional Requirement** |
| 1 | As a user, I would like to sign-up for a Travelin account. |
| 2 | As a user, I would like to log-in to my Travelin account. |
| 3 | As a user, I would like to reset my password if I forget it. |
| 4 | As a user, I would like to see destination recommendations based on my interests. |
| 5 | As a user, I would like to see travel companion recommendations based on similar interests. |
| 6 | As a user, I would like to rate my travel companions. |
| 7 | As a user, I would like to report another user. |
| 8 | As a user, I would like to be able to send messages to my potential travel companions. |
| 9 | As a user, I would like to see my rating. |
| 10 | As a user, I would like to be able to set a profile description. |
| 11 | As a user, I would like to upload pictures to my profile. |
| 12 | As a user, I would like to find hotels at my destination. (if time allows) |
| 13 | As a user, I would like to find flights to my destination. (if time allows) |
| 14 | As a user, I would like to be able to specify my interests. |
| 15 | As a user, I would like to be able to delete my account. |
| 16 | As a user, I would like to receive message notifications. |
| 17 | As a user, I would like to be able to block other users. |
| 18 | As a user, I would like to be able to receive messages from my potential travel companions. |
| 19 | As a user, I would like to be able to see other users ratings |
| 20 | As a user, I would like to search for other users. |
| 21 | As a user, I would like to filter the searched users. |
| 22 | As a user, I would like to be able to easily navigate between tabs. |
| 23 | As a user, I would like to be able to edit the reviews and ratings I have posted for other users. |
| 24 | As a user, I would like to leave an anonymous comment along with the rating for another user on his/her profile page and it will be visible to other users. |

**Non-Functional Requirements**

**Security:** User login should be secure. Passwords should be hashed and salted before being stored in the database, so any error that results in exposing the database does not compromise user security. No login information should be saved locally.

**Usability:** The service should be accessible on a wide array of Android devices. Developing using an Android-based platform will allow for this with minimal extra effort.

**Maintainability:** The project should be kept as maintainable as possible for future work. Some ways this could be accomplished include doing peer code review and maintaining code style conventions.

**Privacy:** Users should be able to choose which personal information they wish to disclose to other users. Users will be required to provide their email address and name in order to log in, but they should not be required to show these to other users. Similarly, while item listings will allow a location to be specified, this should not be required.

**Scalability:** The frontend and backend should communicate by way of an API, decoupling the two systems. This will allow for changes in one system to be made independently of the other, and also promote better maintainability.

**Response time:**  Most non-API calls in the app should be less than 500ms while API calls should generally be 1 second or less.

**Environment:** We will use the Java Development Kit (JDK) with Android Studio and XML for the frontend. For the backend, the server of the Android application will be set on a remote server like Realm Cloud.