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First Progress Report

**Product Description**

Our product name is “WalletWatch” and our elevator pitch is “A quick, secure, and offline mobile app to track and discover your spending habits.”

For more detail, see: [Project Idea Proposal.docx](https://teams.microsoft.com/l/file/1B379AC2-9855-491C-AF00-D197DF42F643?tenantId=d7270324-ea10-47a1-ae5f-74dba073f8fd&fileType=docx&objectUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202%2FShared%20Documents%2FTeam%204%2FProject%20Idea%20Document.docx&baseUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202&serviceName=teams&threadId=19:d636031255fd466f8aa323a89c54a6db@thread.skype&groupId=1128cb48-882f-4a74-b1f0-1db1209be26d)

**Feature List**

1) Submitting New Entry: This feature will allow the user to quickly enter a new expense. This view will allow the user to enter a USD amount, date, and category.

2) Verifying Submitted Entries: This feature will display all submitted entries in a queue format where users can select which expense entries that they want to save to the local data file. This feature will help filter out unwanted entries.

3) Viewing Spending Data: This feature will allow the user to view all the information that they submitted in the past in a secure fashion. This section is designed to be visually appealing for the user to see in aggregated format.

For more detail, see: [Features List.docx](https://teams.microsoft.com/l/file/F4CC22BF-1D5E-4A16-818B-00C7471A326B?tenantId=d7270324-ea10-47a1-ae5f-74dba073f8fd&fileType=docx&objectUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202%2FShared%20Documents%2FTeam%204%2FFeatures%20List.docx&baseUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202&serviceName=teams&threadId=19:d636031255fd466f8aa323a89c54a6db@thread.skype&groupId=1128cb48-882f-4a74-b1f0-1db1209be26d)

**Constraints List**

The application will be an Android app that is secure (offline, password protected, encryption, etc.) and stores everything inside the local files.

For more detail, see: [Constraints List.docx](https://teams.microsoft.com/l/file/E167DEDF-CDEE-4D84-9DBC-AC73DF40FCAF?tenantId=d7270324-ea10-47a1-ae5f-74dba073f8fd&fileType=docx&objectUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202%2FShared%20Documents%2FTeam%204%2FConstraints%20List.docx&baseUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202&serviceName=teams&threadId=19:d636031255fd466f8aa323a89c54a6db@thread.skype&groupId=1128cb48-882f-4a74-b1f0-1db1209be26d)

**Module List**

Feature 1: Submitting New Entry (TAB 1: Default User View on App Launch

The user will be able to enter dollar amount of expense, an expense category, an optional date, and an optional description. Upon tapping the “Submit” button, a green popup will be displayed notifying the user of successful submit to queue, and the expense entry will be enqueued on to the queue that is displayed on TAB 2.

Feature 2: Verifying Submitted Entries (TAB 2)

The user will have to enter their password upon entering TAB 2. Once the password is entered, they will be able to view all of the entries that they have submitted into the queue. They will have the option to verify the entries using the checkbox with each entry. The checkbox is checked by default, so users will have to uncheck the entries that they don’t want to store. After going through all the entries, users will be able to submit all checked entries by tapping the “Submit” button at the bottom. This will clear the queue of entries and move users to TAB 3.

Feature 3: Viewing Spending Data (TAB 3)

The user will be able to view all verified expense entries in two visual formats including a line chart and a pie chart. The line chart can be filtered by category and a generic time interval. The pie chart can be filtered by a generic time interval and will display the percentage spent in each category.

For more detail, see: [Features List.docx](https://teams.microsoft.com/l/file/F4CC22BF-1D5E-4A16-818B-00C7471A326B?tenantId=d7270324-ea10-47a1-ae5f-74dba073f8fd&fileType=docx&objectUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202%2FShared%20Documents%2FTeam%204%2FFeatures%20List.docx&baseUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202&serviceName=teams&threadId=19:d636031255fd466f8aa323a89c54a6db@thread.skype&groupId=1128cb48-882f-4a74-b1f0-1db1209be26d)

**Function List**

Brief discussion involving the necessary functions to implement several modules was conducted.

For more detail, see: [Functions List.docx](https://teams.microsoft.com/l/file/5CDBE4FB-6EE5-4CF9-8C05-4C6EA4BC4F03?tenantId=d7270324-ea10-47a1-ae5f-74dba073f8fd&fileType=docx&objectUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202%2FShared%20Documents%2FTeam%204%2FFunctions%20List.docx&baseUrl=https%3A%2F%2Fspuonline.sharepoint.com%2Fsites%2FCSC415xWS20202&serviceName=teams&threadId=19:d636031255fd466f8aa323a89c54a6db@thread.skype&groupId=1128cb48-882f-4a74-b1f0-1db1209be26d)