NorthArk Investment Bank - Project Forecast Functional and Non-Functional Requirements Document

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1. Document Purpose

This combined Functional and Non-Functional Requirements Document is designed to be an input to the Agile software development process. It expands on the Agile requirements document to aid the Agile team to estimate, prioritize, and backlog the features described. The Functional Requirements specify what the system is to visibly to do. The Non-Functional Requirements specify requirements of the system that are not visible to the user.

With the understanding that requirements for an Agile project must be documented 'early and often,' we acknowledge that this document represents incomplete knowledge of the subject area, and that additional engagement between the Agile team and the business will be required to prioritize and detail these requirements before and during software development.

2. Functional Requirements

Functional requirements provide the requirements of what the system is to do so that it can be **developed**. They are subject to change in an agile project but try to flush out as much of it as you can to use your time as wisely as possible

> *Northark Project Note: Functional requirements have been identified in the ARD as Acceptance Criteria. In some work environments, they may be provided in a Functional Requirements Document ("FRD"). For example purposes, they are reiterated here below.*

2.1. View Recent Transactions
   2.1.1. Display all transactions for the past 12 months
   2.1.2. Data is presented with columns for date, description, balance, income, expense.
   2.1.3. Option for data refresh is available.

2.2. Expense Report
   2.2.1. Report initiated by selecting “Expense Report” button
   2.2.2. Report displays option for user to select time period for report
      2.2.2.1. Options include: current week, current month, current quarter, year to date, last week, last month, last quarter, last year, and custom.
      2.2.2.2. Default value is “last month”.
      2.2.2.3. User can change default option
   2.2.3. Report generated by user selecting time period
   2.2.4. Generated report includes a header of “Expense Report for <dates covered> as of <generation date>”
      2.2.4.1. Report includes columns for Date, Description, and Amount, Approved by
   2.2.5. User can save to PDF
      2.2.5.1. PDF Report includes page number on bottom.
   2.2.6. User can close report

2.3. Income Report
   2.3.1. Report initiated by selecting “Income Report” button
   2.3.2. Report displays option for user to select time period for report
      2.3.2.1. Options include: current week, current month, current quarter, year to date, last week, last month, last quarter, last year, and custom.
      2.3.2.2. Default value is “last month”.
      2.3.2.3. User can change default option

2.3.3. Generated report includes a header of "Income Report for <dates covered> as of <generation date>"
2.3.3.1. Report includes columns for Date, Description, and Amount, Approved by
2.3.4. User can save to PDF
2.3.4.1. PDF Report includes page number on bottom.
2.3.5. User can close report
2.4. Projection Report
2.4.1. Report initiated by selecting "Projection Report" button
2.4.2. Reports displays option for user to select time period for report
2.4.2.1. Options include: 3 month forecast" or "6 month forecast"
2.4.3. Report generated by user selecting time period
2.4.4. Report includes a header of "Projection Report for <dates covered> as of <generation date>"
2.4.5. Report includes a line chart where the X axis contains MMYY and the Y axis contains amounts.
2.4.6. Display will show 1 line for cash flow, 1 for Income, and 1 for expenses
2.4.7. Report displays prior 6 month data in solid line and forecasted data in a dotted line.
2.4.8. The current month will always be part of the months forecasted.
2.4.9. User can save to PDF
2.4.9.1. PDF Report includes page number on bottom.
2.5. Navigation
2.5.1. When any report is opened it replaces any report currently displayed on the screen
2.5.2. From any screen, the user can go to any of the reports or transaction log.
2.6. Logoff
2.6.1. Log out option is provided.
2.6.2. Upon selecting logoff screen does not display any data and Login page is provided

3. Non-Functional Requirements

Non-Functional requirements provide the define system behaviour, features, and general characteristics that affect the user experience.

3.1. Development Requirements
3.1.1. Web based tool is to be built using Vue.JS, Angular.JS, React.JS, Java
3.1.2. Portal to connect to bank data is to be created using Plaid
3.1.3. Data is to be accessed through the following source using provided credentials:
3.1.4. Database: Utilize Stripe API to connect to dummy bank account
3.2. Security Requirements
3.2.1. Connection to bank information must utilize the latest security authentication methods.
3.2.2. Password reset links provide a message stating "For assistance with your password please contact the help desk."

3.3. Performance Requirements

3.3.1. Screen refresh to occur in less than 1 second

3.3.2. Report generation to be completed in less than 2 seconds.