CSCI 401 HoneyJar
Executive Summary
(Project #41)

Background Information

Project Title	HoneyJar- Quick Payments, Micro Investing, Wellness (iOS or Android)
Company	Fidelity Investments- Center for Applied Technology
Objective	Create an iOS app with functionalities of Quick Payment, Micro Investing and Well 360.

Team Member

(1) Pinghao Luo, (2) Minxuan Song, (3) Haiyu Tian (4) Tianxing Liu, (5) Wei Luo, (6) Xubo Zhu

Stakeholder

(1) Andrew Morgan, Program Manager, Fidelity Center for Applied Technology, Fidelity Investments
(2) Jeffrey Miller, Associate Professor of Computer Science and Information Technology Practice, USC

Requirements

Main objective

The main objective of the HoneyJar project will be to create an iOS app with functionalities of Quick Payment, Micro Investing and Well 360.

Development Process

The development process is divided into five processes: Planning, Analysis & Design, Implementation, Testing, and Deployment. During the planning process, we will analyze the "Must Have's" and "Nice to Have's" features in our requirements. During the analysis & design process, we will draw a front-end UI mockup, a logic flowchart, and a NoSQL database design. During the implementation process, we will code up the front-end and the back-end using dummy values, and, after testing, incorporate an online database. During the testing process, we will design various test cases to test the robust of our app. And finally, during the deployment process, we will deploy the app from our virtual machine to our mobile phone.

List of Requirements

This document also provides a comprehensive list of requirements for this project, separated into "Must Have's" and "Nice to Have's" to demonstrate the different priorities of our requirements.

Must Have's

	Requirement	Priority

1.	Set up code base from scratch	**High**
2.	Implement user-friendly UI design / UX design	**High**
3.	Implement MangoDB as the database	**High**
4.	Implement money transfer feature	**High**
5.	Implement stock search and stock purchase functionalities	**High**
6.	Implement user login and sign up functionalities	**High**
7.	Implement user profile page	**High**
8.	Implement notification feature if payment is received	**High**

Good to Have's

	Requirements	**Priorities**
1.	Add friends requests between users	**Medium**
2.	Stock recommendation using basic Machine Learning algorithm	**Medium**
3.	Profile personalization	**Medium**
4.	Investment Education on financial literacy	**Medium**
5.	Embedded tutorial videos on how to use the apps	**Medium**

6.	Real-time chatting between friends	**Low**
7.	Connect with Apple Pay / Google pay to make in store purchases	**Low**

Each Member's Work

(1) Pinghao Luo
1st & 2nd week:
During the first two weeks, Pinghao was doing research on Venmo and Acorns
Also, Pinghao wrote scope letters for app design schedule
3rd week:
Pinghao designed the flowchart of the HoneyJar and designed the UI interface in FluidUI
App on
4th & 5th week:
Pinghao helped set up code base for frontend in Xcode and started implement frontend in swift

(2) Minxuan Song
1st week:
Minxuan wrote scope letters and design schedule along with the team.
2nd week:
Minxuan drew flowcharts and then opened up the FluidUI design panel and shared it with the team, and then he designed the login and signup page.
3rd week:
Minxuan set up the code base and research on successful implementations of such application.
4th & 5th week:

Minxuan kept working on the implementations and designed the back-end database structure with the team.

(3) Haiyu Tian
1st & 2nd week:
During the first two weeks, Haiyu is doing research on Fin-tech apps like Venmo and Acoin. Also, Haiyu participates in planning group work for future weeks.
3rd week:
Haiyu helps translate our white-board design graphs into UI representation using FluidUI and Draw.io.
4th & 5th week:
Haiyu is doing research on setting up login & sign up page in IOS app development. Also, work with other teammates to prepare for the upcoming demo.

(4) Tianxing Liu:
1st & 2nd week:
During the first two weeks, Tianxing was familiarizing with the project context and did research on existing relevant applications like Venmo & Acorns.
3rd week:
Tianxing worked on designing the flowchart of the HoneyJar App on Draw.io.

4th & 5th week:
Tianxing started to implement the front-end design on Xcode using swift. He also refactored the Draw.io flowchart to BPMN diagrams.

(5) Wei Luo:
1st & 2nd week:
During the past several weeks, Wei designed several front-end page using Draw.io.
3rd week:
Wei worked on the flowchart of the App.
4th & 5th week: Wei worked on fundamental design of NoSQL database (MongoDB), including, draw the USER object and the STOCK object structure Wei also worked on the executive summary.

(6) Xubo (Hiro) Zhu:
1st & 2nd week: Gathered information about the project & did research on existing products on the market. Worked on Scoping Letter and overall planning. Worked on UI wireframes designs.

3rd week: Refactored design based on the stakeholder's feedback. Worked on the detailed flowchart of the product.

4th & 5th week: Started working on frontend iOS development on Xcode using swift. Designed the database structure for the first pass.