## Task 3A: Sprints

### Sprint 1: User Account Management and Authentication

**Objective:** This feature aims to establish core user management functionalities, including account registration, login, password recovery, and language settings.

**Sprint Details:** Develop core user management features such as account registration, login, password recovery, and support for language settings. This sprint focuses on creating a robust user authentication system, ensuring that all users can access their accounts securely, and allowing them to change the interface language.

- Account Registration or Login: Users can create or log into their accounts.
- Password Recovery: Users can recover their passwords securely.
- Language Settings: Users can change the interface language.

**Duration:** 2 weeks

#### Sprint 2: Core Expense Management Features

**Objective:** Implement core functionalities for tracking expenses, setting budgets, and managing daily expenditure limits.

**Sprint Details:** Develop input forms for recording expenses, allow users to set budgets, and notify them if daily limits are exceeded.

- Expense Tracking: Users can track their expenses.
- Budget Setting: Users can set their budgets.
- **Daily Expenditure Limits:** Users can manage and get notified about their daily expenditure limits.

**Duration:** 2 weeks

#### Sprint 3: Financial Insights and History

**Objective:** Develop features that provide users with insights into their financial activities.

**Sprint Details:** Includes viewing expense history, setting reminders for expenses, and generating financial reports.

• Expense History: Users can view their expense history.

• Expense Reminders: Users can set reminders for expenses.

• Financial Reporting: Users can generate financial reports.

**Duration:** 2 weeks

#### Sprint 4: Advanced Financial Management

**Objective:** Add advanced financial management features.

**Sprint Details:** Includes emergency fund setup, support for multiple currencies, and dynamic budget adjustments.

• Emergency Funds Management: Users can manage their emergency funds.

• **Currency Preference:** Users can set their currency preferences.

• **Dynamic Budget Adjustment:** Users can adjust budgets dynamically based on spending behavior.

**Duration:** 2 weeks

#### Sprint 5: Invoicing and Payment Features

**Objective:** Develop features related to invoice generation, tracking invoice payments, and basic project management tools.

**Sprint Details:** Includes invoice generation, tracking payments, and managing tasks and expenses related to specific projects.

• Invoice Generation: Users can generate invoices.

• Invoice Payment Tracking: Users can track invoice payments.

Project Management: Users can manage tasks and expenses related to projects.

**Duration:** 2 weeks

#### Sprint 6: User and System Administration

**Objective:** Focus on administration and system management tasks.

**Sprint Details:** Includes user account management, handling system updates, resolving user issues, and managing user feedback.

- **User Account Management:** Admins can manage user accounts.
- System Updates: Admins can handle system updates.
- User Issue Resolution: Admins can resolve user issues.
- System Feedback Management: Admins can manage user feedback.

**Duration:** 2 weeks

#### Sprint 7: Data Security and Enforcement

**Objective:** Ensure data security enforcement, manage advertisement campaigns, and develop features for demographic targeting.

**Sprint Details:** Focuses on data security, managing ad campaigns, and demographic targeting.

- Data Security Enforcement: Ensure data security measures are enforced.
- Ad Campaign Management: Manage advertisement campaigns.
- **Demographic Targeting:** Develop features for demographic targeting.

**Duration:** 2 weeks

#### Sprint 8: Advertisement Management and Performance

**Objective:** Develop features that allow users to monitor the performance of ad campaigns.

**Sprint Details:** Includes generating reports and analytics for ad performance.

 Ad Performance Monitoring: Users can monitor and analyze the performance of ad campaigns.

**Duration:** 1 week

### Task 3B: Functional Point estimation

# **Complexity Factor**

Complexity Factor	Rating (0-5)
Backup and Recovery	3
Data Communication	3
Distributed Processing Functions	3
Is Performance Critical?	4
Existing Operating Environment	3
On-Line Data Entry	3
Input Transaction Bit Over Multiple Screens	2
Master Files Updated On-Line	4
Complexity of Inputs, Outputs, Files, Inquiries	4
Complexity of Processing	4
Code Design for Re-use	3
Are Conversions/Installation Included in Design?	1
Multiple Installations	2
Application Designed to Facilitate Change by the User	3
ΣFi	42

Adjusted FP :  $0.65 + (\Sigma Fi / 100)$ ,

Where  $\Sigma Fi = Sum$  of each characteristics mentioned above

Therefore, AFPC = UFPC \*  $(0.65 + \Sigma Fi/100)$ 

# FP calculated for each of the sprints as mentioned

Sprint 1: User Account Management and Authentication

Functionality	Туре	Complexity	FP
Account Registration	External Input (EI)	Low	3
Account Login	External Input (EI)	Low	3
Password Recovery	External Inquiry (EQ)	Average	4
Language Settings	External Input (EI)	Low	3
Unadjusted Functional Points (UFPC)			13
Adjusted Functional Points (AFPC)	13 * {0.65 + (42/100)} = 18.91		

Sprint 2: Core Expense Management Features

Functionality	Туре	Complexity	FP
Expense Tracking	External Input (EI)	Average	4
Budget Setting	External Input (EI)	Average	4
Daily Expenditure Limits	External Inquiry (EQ)	Average	4
Unadjusted Functional Points (UFPC)			12
Adjusted Functional Points (AFPC)	12 * {0.65 + (42/100)} = 17	12 * {0.65 + (42/100)} = 17.16	

Sprint 3: Financial Insights and History

Functionality	Туре	Complexity	FP
Expense History	External Inquiry (EQ)	Low	3
Expense Reminders	External Output (EO)	Low	3
Financial Reporting	External Output (EO)	Average	4
Unadjusted Functional Points (UFPC)			10
Adjusted Functional Points (AFPC)	10 * {0.65 + (42/100)} = 15.10		

Sprint 4: Advanced Financial Management

Functionality	Туре	Complexity	FP
Emergency Funds Management	External Input (EI)	Average	4
Currency Preference	External Input (EI)	Average	4
Dynamic Budget Adjustment	External Inquiry (EQ)	Average	4
Unadjusted Functional Points (UFPC)			12
Adjusted Functional Points (AFPC)	12 * {0.65 + (42/100)} = 17.16		

Sprint 5: Invoicing and Payment Features

Functionality	Туре	Complexity	FP
Invoice	External Input (EI)	Low	3
Generation	External input (EI)	LOW	3
Invoice Payment	External Inquiry (EQ)	Low	3
Tracking	External Inquiry (EQ)	LOW	3
Project	External Input (FI)	Low	3
Management	External Input (EI)	Low	3
Unadjusted			
Functional Points			9
(UFPC)			
Adjusted			
<b>Functional Points</b>	9 * {0.65 + (42/100)}	9 * {0.65 + (42/100)} = 13.77	
(AFPC)			

Sprint 6: User and System Administration

Functionality	Туре	Complexity	FP
User Account	External Input (EI)	Low	3
Management	External iliput (EI)	LOW	3
System Updates	External Inquiry (EQ)	Low	3
User Issue	External Inquiry (EQ)	Avorago	4
Resolution	External Inquiry (EQ)	Average	4
System Feedback	External Output (FO)	Low	2
Management	External Output (EO)	Low	3
Unadjusted			
<b>Functional Points</b>			13
(UFPC)			
Adjusted Functional	13 * {0.65 + (42/100)} = 18.91		
Points (AFPC)			

Sprint 7: Data Security and Enforcement

Functionality	Туре	Complexity	FP
Data Security	External Input (EI)	Ανοτασο	4
Enforcement		Average	4
Ad Campaign	Evtornal Innut (EI)	Avorago	4
Management	External Input (EI)	Average	4
Demographic	External Inquiry (EQ)	Average	4
Targeting	External Inquiry (EQ)	Average	4
Unadjusted			
<b>Functional Points</b>			12
(UFPC)			
Adjusted Functional	12 * {0.65 + (42/100)} = 17.16		
Points (AFPC)			

Sprint 8: Advertisement Management and Performance

Functionality	Туре	Complexity	FP
Ad			
Performance	External Inquiry (EQ)	Low	3
Monitoring			
Unadjusted			
Functional			3
Points (UFPC)			
Adjusted			
Functional	3 * {0.65 + (42/100)} = 4	l. <b>2</b> 9	
Points (AFPC)			