

# PROJECT CHARTER

Name	Developing a personal finance tracker web application			
Date	Oct 15, 2023		Project Sponsor	Sakarya University
Last revised	Oct 21, 2023		Project Manager	Ömer Faruk AYDIN
Project Purpose				
A web-based personal finance application will allow users to reach from anywhere.				
Users will be able to register, login, manage their income and expenses and create budgets.				
Allow users to check exchange rates through the application.				
Project Definition				
Financial Management Solution: The "Personal Finance Tracker" is a web-based financial management				
User-Friendly Budgeting Platform: This platform prioritizes user experience by offering an interface for setting, tracking, and adjusting personal budgets. Users can input income and expenses, and the system provides easy-to-understand data visualizations to facilitate informed financial decisions.				
Collaborative Development and Communication: The project is a result of collaborative efforts, with regular communication among team members and stakeholders. The addition of the global exchange rate feature enriches the user experience and satisfy their expectations.				
Security and Regulatory Compliance: Users can rely on the exchange rate feature while ensuring their financial information's confidentiality.				
Team Members & Roles				
Ömer Faruk AYDIN	B201202023	Project Manager, Back-end Developer, Tester, Organizer		
Burak ALATAŞ	B201202018	Back-end Developer, Tester, Technical Support		
Muhammet Ali ÇABUK	B201202060	Back-end Developer, Documentation Support		
Yiğit SERT	B201202041	Front-end Developer, Documentation Organizer		
Yunus Emre GÜLTEPE	B201202022	Front-end Developer, Budget Organizer		
Nisanur BAŞTOR	B201202044	Front-end Developer, Documentation Organizer		
Project Budget				
TASK	STATUS	BUDGET	ACTUAL	UNDER/OVER
Planning	In Progress	\$1,000	\$500	\$500
Development	On Hold	\$5,000	\$-	\$(5,000)
Testing		\$500	\$-	\$(500)
Deployment		\$2,500	\$-	\$(2,500)
Maintainance		\$5,000	\$-	\$(5,000)
Project Management		\$2,500	\$-	\$(2,500)
Wages		\$10,000	\$250	\$(9,750)
TOTAL		\$26,500	\$750	\$(25,750)

Major Milestones & Target Dates of Milestones		Success Criteria
Project Initiation	(Week -1)16.10.2023-22.10.2023	Delivery in 9 weeks.
User Registration and Login	(Week 2-3)23.10.2023-5.11.2023	%100 implementation of all defined functional requirements.
Income and Expense Tracking	(Week 4 -5)6.11.2023-19.11.2023	User satisfaction rating of at least 4 out of 5 based on feedbacks.
Exchange Rate Implementation	(Week 6)27.11.2023-3.12.2023	At least %90 accuracy rate in exchange rates feature
Designing	(Week 7)4.12.2023-10.12.2023	
Data Visualization & Finalizing Project	(Week 8-9)11.12.2023 - 24.12.2023	
<b>Risks</b>		<b>Constraints</b>
Inaccurate time estimates		Needs to be done in atmost 10 weeks
Task-employee conflicts		Creating a full documentation of the project is a must
Lack of proper planning		Every project member has to know about other members' responsibilities
Changing requirements		The availability of exchange rates server may be limited which can effect performance
Lack of technological adaptation		
<b>Dependencies</b>		
<b>1)Task Dependencies:</b> Dependency on the completion of user authentication and authorization tasks, expense and income management, availability of income and expense data. Completion of external API integration for currency exchange rates.		<b>3)Data Dependencies:</b> User registration and login processes depend on user data, income and expense features rely on financial transaction data, exchange rate tracking relies on up-to-data from external sources(e.g. currency exchange rate APIs.)
<b>2)Resource Dependencies:</b> A database server which all data will be stored, a web server where application will be hosted,a java development environment to develop the app, staff who are developers, designers and tester for the project to proceed		<b>4)Temporal Dependencies:</b> There may be deadlines associated with project milestones such as completion of user registration, data visualization and such. Certain tasks may have scheduling constraints, like ensuring that user data is available before implementing user registration and login features.

Technologies Will Be Used For Software Development & Project Management				
Programming Languages	Java, Javascript		Java	Spring Boot, JPA, Hibernate, Lombok
Web Technologies	Bootstrap, HTML5, CSS, Javascript		UML Tools	Star UML
Web Services	REST API, Axis		IDE	IntelliJ Idea, Visual Studio Code
Database	MySQL		Project Planning & Management	Jira, Confluence
Version Control	Git		Build Tools	Maven
Application & Web Servers	Apache Tomcat		Issue Management Tools	Jira
Communication Channels of Team Members & Stakeholders		Daily meetings via Discord. Jira and Confluence for issues, errors and bugs. Whatsapp for urgent actions mostly.		