

# Work Breakdown Structure

Tasks Required for Semester - 3 Project: Smart Trading Advisor

Task Name	Task Description	Sub Task	Technology Outlook	Technologies Required	Comments	Importance
Start Up Page	Build a start up page which will automatically redirect the user to the login page after the app loads. The page should also contain a disclaimer regarding the app.	Disclaimer	App Development	Flutter Framework, Dart Programming Language		Low
Login Page	Build a login page where user will input his credentials to login to the app. A form will verify credentials from user database, if credentials are right, it will redirect to the home page. A button will redirect user to the sign up page on click.	Form to user Input Credentials, Button for sign up page	App Development, Authentication	Flutter Framework, Dart Programming Language, Firebase Console	Add authentication using Firebase	High
Sign Up Page	Build a sign up page which will allow user to input credentials to sign up to the app. A form will collect user data and store it in user database and then redirect the user to Thankyou page	Sign Up Form	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		Medium
Thank You Page	Build a Thank You page which will display a thankyou message to the user for signing into the app. A button will redirect user to the login page.	Login Button	App Development	Flutter Framework, Dart Programming Language		Low
App Layout	Build an app layout consisting of titlebar and bottom navigation which will be used across the app.	Title Bar, Bottom Navigation	App Development	Flutter Framework, Dart Programming Language		High
Dashboard/ Home Page	Build a landing page for the user which will display some of his chosen stocks. The user can redirect to the analysis page by clicking on a particular stock	Stock Display Layout Widget	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console	Add database which will contain list of stocks chosen by user, it should be linked to user profile.	High
Stock List Page	Build a page which will display to the user the list of stocks in his profile. It should have a search widget which will allow him to search from his list of stocks to add to his dashboard.	Search Widget, Stock List Widget	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console	Add database which will contain stock search history of user, it should be linked to user profile.	Medium
Favorites Page	Build a page which will contain a list of stocks which the user has chosen as his favorite	Stock Display Widget	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		Low
Add New Stocks Page	Build a page to add new stocks to the stock list, it will contain a widget from which user can search for stock symbol and a form to enter stock name and symbol.	Stock Search Widget, Stock Input Form	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		High
Stock Analysis	Get Stock Data from NSEPY and analyse the closing prices over a period of time to forecast future stock prices	Web Scraping, Model Fitting, Predicting Values, Calculate Error, Save Data	Time Series Analysis, Data Analysis	Python, ARIMA, numpy, pandas, matplotlib, statsmodels, etc		High
Stock Analysis Page	Build a page to display future prediction of the stock, It will contain a button to redirect to More Information Page	Graph Widget, Info Widget, More Information Button	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		High
More Information Page	Build a page to display information about the analysed stock, It will contain a button to redirect back to the Stock Analysis Page	Info Widget, Stock Analysis Button	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		Medium
Settings Page	Build a settings page where user can modify settings of the app and save it in a database linked to his profile	Settings Database	App Development, DBMS	Flutter Framework, Dart Programming Language, Firebase Console		Low
FAQs Page	Build a FAQ page which will have answer to some questions about our project	FAQ Widget	App Development	Flutter Framework, Dart Programming Language		Low
Terms and Conditions Page	Build a Terms and Conditions page	T & C Widget	App Development	Flutter Framework, Dart Programming Language		Low