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# **CrowdStock**

*Project Charter*

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## Problem Statement:

There are many interesting and unexplored applications of crowdsourcing to the stock market. We intend to capitalize on this with highly social, interactive, and crowdsourced speculation of market behavior from within an application.

## Project Objectives:

*CrowdStock* will allow users of various financial backgrounds, from novices to advanced traders, to make and view speculations on future stock market behavior. *CrowdStock* will be highly available through a web and mobile interface to enable any user to sign up, create a profile, and begin gaining a personal reputation of correctness in predicting the behavior of specific stocks in the market. Our project will keep track of data and key metrics such as the following: individual user's track record of predictions, popular stocks and trends, aggregate predictions of stocks over time, leaderboards of users with the most correct predictions, and many more. *CrowdStock* will make these metrics available with a highly intuitive interface and easily readable charts and graphs. Users with profiles will be able to follow other users to track their forecasts of stock performance.

## Stakeholders:

Software Engineers — the students that will design and build the application for the end user. The end user / customer — will use the application to participate in prediction of stock behavior and tracking market metrics. Beta testers — will ensure the application is in working condition before release, and will help in providing initial crowdsourced data. Project coordinator (Dunsmore) — will ensure proper documentation is achieved and will approve the completion of project milestones.

## Project Deliverables:

*CrowdStock* will enable gamification and crowdsourcing of stock market predictions. It will enable users to make use of aggregate data to make their own decisions on whether or not to buy and sell real stocks. The application will provide features that enable:

- Making and tracking user predictions of specific stocks over time.
- Providing aggregate stock forecast data in intuitive views, charts, and graphs.
- Access to these services via a web and mobile platform.
- Providing users with a signup, enabling user profiles for individualization and incentivization of market analysis.