

# Sprint 1: Stock Market Analytics and Recommendation



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# Motivation and Vision

The stock market can be a intimidating environment for new investors. With hundreds of stocks to choose from spanning 11 sectors, knowing what to invest in and when can be a difficult task. Our goal through this project is to provide a user friendly toolset that allows our subscribers to track various money flows and provide guidance on which stocks to invest in, all while using easy to read models and statistics.

# Project Requirements

1. Integrates market data for all equities on daily or minutes basis.
2. Provide interface for its subscribers to register, login and create profile.
3. Build public pages to market the cloud-based market recommendation system.
4. Provide sector-based recommendation for investment
5. Provide individual stock recommendation in each sector.
6. Provide analytics on historic return for following recommendations of the site.

# Project Plan

1/20 - 1/25 (1 Week) Sprint 1 ( <b>Current</b> )	1/26 - 2/8 (2 Week) Sprint 2	2/9 - 2/15 (1 Week) Sprint 3	2/16 - 3/1 (2 Weeks) Sprint 4	3/2 - 3/15 (1 Week) Sprint 5
Create Login Authentication (Django) Finish up QA Tests for Authentication	Build public pages to market the cloud-based market recommendation system. Begin machine learning for stock recommendation	Design & Make UI user friendly  Continue Machine Learning	Set up Stock Tracker API Integrate market data for all equities on daily basis. Continue Machine Learning	Provide sector-based recommendation for investment Provide individual stock recommendation in each sector.

# Project Plan Cont.

3/16 - 4/1 (2 Week) Sprint 6	4/2 - 4/4 (1 Week) Sprint 7	4/5 - 4/18 (1 Week) Sprint 8	4/19 - 4/21 (2 Weeks) Sprint 9
Provide analytics on historic return for following recommendations of the site.	Create unit tests (Selenium)	Deploy code to server	Clean up any remaining bugs  Finish any stories that rolled over

# Project Tools

Languages: Python, Javascript, html, css, SQLite

Frameworks: Django, Angular

Config. Management: GitHub, Trello

Server Setup: 000Webhost

Development Environment: pycharm, visual studio code

# Risks and Challenges

- Not much experience in machine learning
- Limited knowledge of Django
- Not everyone is fluent in stock market jargon or analysis

# What We Are Working On Next...

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Navbar

Welcome to our app, test4!