



Agenda

- Team Roles and Responsibilities
- 2. *Professor Feedback
- Problem Statement
- 4. Project Description
- 5. Project Schedule
- 6. Team Working Agreement
- 7. Personas

- 8. MVP
- 9. Technologies
- 10.Algorithms
- 11.*Diagrams
- 12.*Sprint 1 Recap
- 13.*Product Backlog

- 14.*Sprint 2 Backlog
- 15.*Metrics
- 16.*Retrospective
- 17.*Sprint 3
- 18.*Project Demo
- 19. Wikipage Link

Roles and Responsibilities

- Kassandra Camarillo Team Leader
- Henry Kim Scrum Master
- Abed Mussawi Developer
- Andrew Rowan Developer
- Aviel Sánchez Developer



Feedback Summary

- User Story Acceptance Criteria too vague
 - Updated all AC following professor's feedback
- Story points need to be estimated in Fibonacci
 - Re-pointed stories with Fibonacci and a reference story
- Sprint Backlog slide text too small
 - Split up slides for legible text
- Slide design lacking polish, and missing slides
 - Cleaned up images
 - Followed presentation checklist more closely



Currently, there is a lot of interest in the stock market. Sometimes it could be confusing and daunting to invest money in the stock market since there is a lot of information and it is difficult to access. Our application will make it much easier and more accessible to the greater public to invest more wisely and with the power of data at their back.



An AI that uses historical data, news flow, and intra-day trading data to determine entry and exit points of a stock or fund using a trained regression model in order to maximize profits.

This is for Daily traders and Investors

who want to improve predictive capabilities,

the webb App is a tool to help both large and small capital investors and traders predict market trends faster than a human could.

This subscription service unlike hedge funds, where you need to pay a lot of money out of pocket to manage your investments, or risk trading personal funds with untested strategies,

our application provides an easy way to invest and trade your securities to minimize risk and maximize profits

Project Schedule

- Meeting Cadence
 - Twice a week (Mon, Thur)
 - Additional meetings scheduled ad hoc based on team needs
- Text Based Daily Scrum
 - Asynchronous team makes daily scrums impractical
 - Substitute with text based check in

leam Working Agreement

- Scheduling meetings
- Communications
 - Technologies used

Tentative schedule

Respect

Alex Woods - Retail Investor

Age: 23

Location: Arlington, Virginia

Occupation: Nurse / recent graduate

Alex is a recent graduate who wants to start investing but has limited money and a bit of experience. She is looking for an affordable and user friendly platform that can help her enter the investment world without the need for deep financial knowledge.

Using our app will offer her personalized and ease to use market data which will make investing more accessible for beginners like Alex.



Jaylen Washington - Financial Advisor

Age: 33

Location: Austin, Texas

Occupation: Financial Advisor

Jaylen is a financial advisor who assists individuals with decisions about their money. He offers advice on investments, taxes, and insurance.

Using our app will offer him a useful analysis tool that supplements his advisement strategy with Al backed assessments. This could cut down on his research and analysis, saving time and money.



James Smith - Hedge Fund Manager

Age: 35

Location: San Francisco, California

Occupation: hedge fund manager

James is an experienced hedge fund manager and is always on the look up for new and innovative tools to enhance his investment strategies. James understands that now a days AI models are important tools and are more efficient than using traditional methods.

Using our app will offer him cutting edge algorithms and data analysis which can be a great asset to a better investment in combination with his expertise.



Minimum Viable Product

- The most important capability of the application is the stock price prediction
- This prediction relies on a good model
- Therefore, MVP for Market Magician must do the following
 - Train a model based on selected stock price history
 - Predict future prices for selected stock

Technologies

- Python
- JavaScript
- Machine Learning

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- TensorFlow
- Keras
- Django
- HTML

- CSS
- Reactjs
- PostgresSQL
- Y!finance
- Github
- VSCode

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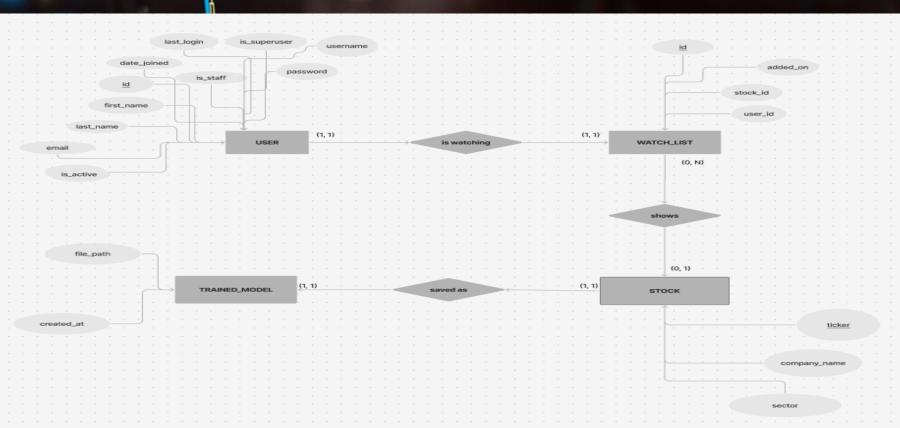
Algorithms

- Linear Regression
 - Poor Prediction Capabilities
- Long-Short Term Memory
 - Needs Activation Function
- Monte Carlo
 - Continue research on implementation



✓ Bid ✓ Ask ✓ Ada ✓ San

Entity-Relationship Diagram



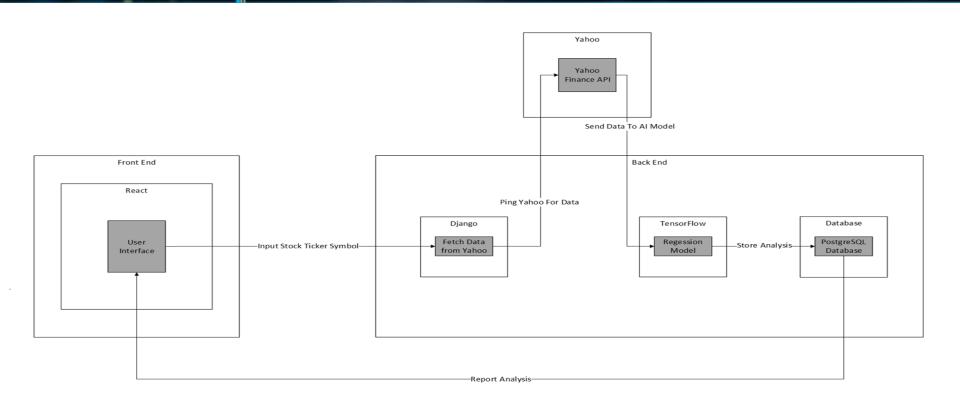


Context Diagram



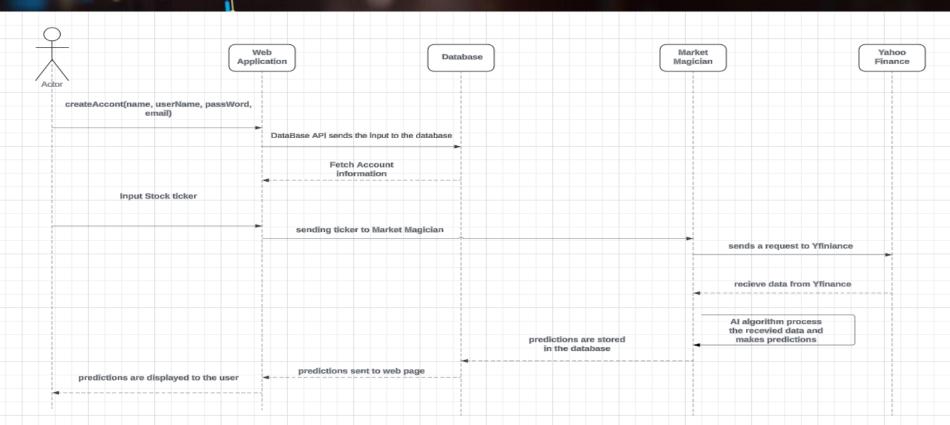


Architecture Diagram





Sequence Diagram





Sprint 1 Recap

Created System Diagrams

- Implemented MVP for application
 - Front end React application
 - Back end Django framework
 - Al Model for stock price prediction



Product Backlog

 Product Backlog updated following User Story design feedback

Larger stories split into smaller ones

New stories added to capture more features



Product Backlog cont

User presented with list of stock

Application displays stocks in my

In the stocks page, when a user

clicks one of the displayed stocks,

price prediction along with recent

the application will present a

price trends in a line chart

account and shows their

performance history

recommendations

As a/an retail Investor, *I Want to*

receive stock recommendations, *So

As a/an retail Investor, *I Want to*

investments and their performance,

So that I can monitor my account's

As a/an retail investor, *I Want to*

get a price prediction from a preset

stock on the stocks page, *So That* I

can decide if I wish to buy, sell, or hold

that* I can consider my potential

see a simple overview of my

investments

performance

that stock

lecua				
L			oduct ba	cking cont.

Issue	Issue key	Summary	Assignee	Status	Resolu	Description	Custom field (Acceptance

To Do

To Do

Done

Done

Criteria) tion

Type Story MARKETMAG-37

MARKETMAG-38

MARKETMAG-39

Story

Story

Receive stock

recommendations

See investment

Get price prediction for

displayed on the stocks

a stock preset and

Aviel

Sánchez

overview

page



Product Backlog cont.

Summary	Assignee

Issue kev

Henry Kim

Personal and financial data must be secure

(needs another look)

Search for stocks other

than those saved in

View historical price

"stocks" page

data

To Do

Status

Done

To Do

Done

Resolu tion

Description Custom field (Acceptance Criteria) *As a/an* retail investor, *I Want to* know that my personal and financial

data are securely handled, *So that* I can trust the app with sensitive

As a/an retail investor, *I Want to*

select a stock other than the presets in

the stocks page, *So That* I can get

price predictions from other stocks

As a/an retail investor, *I Want to*

selected stock over a range of time I

can specify, *So that* I can see price

to see historical price data of a

performance in that time range

information

beside the presets

Story

MARKETMAG-40

Issue

Type

Story

MARKETMAG-41

In the search page, user can enter a stock ticker not displayed

Story

MARKETMAG-42

in the stocks page # User can select an option to see historical data for a stock # The application allows the user

Application displays a line graph

of price history within the time

to select a range of time

range



MARKETMAG-45

Story

Story

See confidence metric of model's

Select the time window to train a stock

predictions

model

displayed to the user

environment

selected stock

User can chose to save it to their account or to their local

User sees the 95% or 99%

confidence interval for the

Users can select a time range

via slider bar or date range to

The application displays the settings were saved for the model

train a stock model

they are trying to train

has shown me, *So that* I can review

As a/an retail investor, *I Want to*

see what the confidence intervals are

for the predicted price, *So that* I can

determine how accurate the prediction

As a/an retail investor, *I Want to*

Select the time window to train a stock

predictions to my personal preferences

model, *So that* I can tailor the price

them at a later time

might be

1.00 1.00	SUP W	Product	Backlo	og cont

		H					
Issue Type	Issue key	Summary	Assignee	Status	Resolu tion	Description	Custom field (Acceptance Criteria)

To Do MARKETMAG-43 Save data visualizations *As a/an* end user, *I Want to* save # Application offers users an Story off displays and charts the applications option to save the charts

To Do

To Do



Product Backlog cont.

etc., *So that* I can easily see which

stocks have been performing

well/poorly quickly

as current price, name,

confidence)

Issue Type	Issue key	Summary	Assignee	Status	Resolu tion	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-47	Create user account/profile	Kassandra Camarillo	То Do		*As a/an* new user, *I Want to* create a user account with my own login name and password, *So that* I can securely log into the application	# When a user at the sign up page enters a unique account name and secure password in the account creation form, the application displays confirmation of account creation. # If and error occurs (name is not unique or password does not

Story MARKETMAG-48 Sort stock watchlist

To Do

As a/an retail investor, *I Want to* quickly sort and search through my watchlist based on options provided by the application (such



MARKETMAG-70

Type

Story

Story

Resolu tion

Description

homepage

As a retail investor, *I Want* a

where I can navigate to from the

create AI models for stocks I'm

model to predict prices

As a/an retail investor, *I Want to*

interested in if they are not already in

the application, *So That* I can use the

webpage where I can add stock tickers

to a watchlist, *So that* I can easily

Product Backlog cont.

Custom field (Acceptance

watchlist page when clicking on the watchlist link on the home

the user to select to get to other

When user has a stock selected

that does not have an existing

model, a training option will

When the training option is clicked, the application will train a

new model and save it

Users can navigate to a

Criteria)

pages

appear

Summary	Assignee	Status

Andrew

Rowan

Andrew

Rowan

Create watch list page

application

Train AI models for

stocks of interest

To Do

In

Review

track my personal stock interests page # Users can navigate back to the home page when clicking on the home page link on the watchlist page *As a/an* retail investor, *I Want* a Story **MARKETMAG-69** Create home page for Kassandra Done Done # When a user goes to the user to navigate Camarillo homepage, *So that* I can select homepage, there will be links for



MARKETMAG-73

MARKETMAG-74

Create stocks page

Create login page

Create sign up page

Story

Story

Story

Summary Assignee Status Resolu

Jonathan

Sanchez

Kassandra

Camarillo

As a retail investor, *I Want* a

webpage where I select stocks, *so

that* I can train models and get price

As an application user, *I Want* a

webpage where I can enter my user

As an application user, *I Want* a

sign up webpage, *so that* I can

create a new user account

credentials, *so that* I can securely log

Description

predictions

into my account

tion

Done

Done

Done

Done

To Do

Product Backlog cont. **Custom field (Acceptance**

Criteria)

When the user clicks on the

stocks link, the browser should

When the user clicks on home page link, the browser should navigate back to the hope page

When the user clicks on the

login link the browser should

When the user clicks on the homepage link, the browser should navigate to the home page

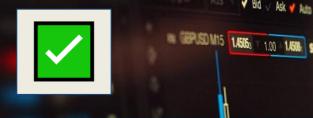
When the user clicks on the sign

up link, the browser should

navigate to the sign up page # When the user clicks on the homepage link, the browser should navigate to the home page

navigate to the login page

navigate to the stocks page



Story

Add log out function

Product Backlog cont.

As a/an app user, *I Want to* log

people can't access my account

out from my account, *So that* other

When user clicks on the logout

button, the application logs the

When logged off, user will be redirected back to homepage

user off

Issue Type	Issue key	Summary	Assignee	Status	Resolu tion	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-75	Check for existing models	Abed Nael Mussawi	Done	Done	*As a/an* experienced investor, *I Want* to be prompted if a stock I chose has no existing model, *So that* I can decide if I want to wait to train a model or not	# When user clicks on get prediction for a stock that does not have a model, the application will display a prompt # The prompt will tell users the stock model does not exist Tensorflow models are saved locally in the file system. The database will point to the paths of these models.
4							

To Do



Product Backlog cont.

Issue Type	Issue key	Summary	Assignee	Status	Resolu tion	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-77	Save stock to watchlist		To Do		*As a* retail investor, *I Want* to save a stock to my watchlist in the watch list page, *So that* I can customize and easily track my personal stock interests	# When user enters a valid stock symbol in the watchlist page, it is added to the user's watchlist table.



Sprint 2 Backlog

Sprint backlog also updated following User Story design feedback

- Point estimation updated
 - Modify points mid sprint affected sprint metrics



Sprint 2 Backlog cont.

system. The database will

point to the paths of these

models.

Tensorflow models are

saved locally in the file

system. The database

will point to the paths of these models.

trained models is stored.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-75	Check for existing models	Abed Nael Mussawi	Done	*As a/an* experienced investor, *I Want* to be prompted if a stock I chose has no existing model, *So that* I can decide if I want to wait to train a model or not	# When user clicks on get prediction for a stock that does not have a model, the application will display a prompt # The prompt will tell users the stock model does not exist # Tensorflow models are saved locally in the file	# Added a function to save the model to the local files. # Added a function to load saved files from the local files and implemented both functions in the prediction view. # Developed a Django model that creates a database table where the path to locally saved

Done

Subtask implement the Abed Nael Mussawi MARKETMAG-68

Django's model to

save the paths for

TensorFlow models.



MARKETMAG-34

Split up page test

Sprint 2 Application

Test Cases

view into model training and get prediction views

Subtask

Task

Design tests using Djanjo's

framework to test the

Running these tests and

Manually testing the

that all the buttons and functionalities operate as

reporting the tests findings

website page, making sure

functionality of the

application

intended

researched Django's test

component-level tests in the

Manually tested the website

and made sure everything is

test.py file of the project

implemented some

working as intended

methodology.

					print 2	Backlog	g cont.
Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Subtask	MARKETMAG-54	Check if Django database(model) can save trained Al stock models	Abed Nael Mussawi	Done	Save model in local memory, django DB hold path information.		

Done

Done

Add andrew as cosign

Research how Django

component level tests

Set of steps to test

implements tests.

Create some

for backend

front end

Abed Nael Mussawi

Abed Nael Mussawi



Sprint 2 Backlog cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-70	Train AI models for stocks of interest	Andrew Rowan	Done	*As a/an* retail investor, *I Want to* create Al models for stocks I'm interested in if they are not already in the application, *So That* I can use the model to predict prices	# When user has a stock selected that does not have an existing model, a training option will appear # When the training option is clicked, the application will train a new model and save it	# functionality to save and load trained models have been added and to check if the model has already been trained before has been implemented in this story MARKETMAG-75 # Created function to accept a query that automatically trains a model if not already trained # page_test view was separated into page_test and display_prediction views # index.html updated to display a search bar object # Attention function moved to next sprint
Subtask	MARKETMAG-67	Save LSTM model to local	Andrew Rowan	Done			



Sprint 2 Backlog cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Subtask	MARKETMAG-63	Add dynamic stock training/predicting in the backedn	Andrew Rowan	Done	Whenever a user wishes to search a stock, it will automatically check if a saved model has been found and if not it will train a model for the user		# Created new function if views that separates page_test view and display_prediction view # created new path in urls.py for this new function # updated index.html



Decide which

to implement

elements of the

home page we want

Henry Kim

Subtask

Sprint 2 Backlog cont.

Select which features we

want to implement for

sprint 2

Selected navigation features

Updated story text to reflect

the change. Separated other features to other stories.

to implement for sprint 2.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-41	Search for stocks other than those saved in "stocks" page	Henry Kim	Done	*As a/an* retail investor, *I Want to* select a stock other than the presets in the stocks page, *So That* I can get price predictions from other stocks beside the presets	# In the search page, user can enter a stock ticker not displayed in the stocks page	# Created search page with a form that sends ticker string to backed end for processing. # Added APIView functon that validates string against csv of NASDAQ and NYSE stock tickers.

Done

Downselect homepage

features for sprint 2.



Link prototype front

end and back end

Henry Kim

Task

Sprint 2 Backlog cont.

React front-end and

combined into single

Front end functions

project codebase

bases

Django back-end codebases

Resolve merge conflicts

successfully interacts with

back end using API calls.

from all team member code

stories

marketmag-39

with Rest APIs

Helped team get all

codebases into github repo

facilitates React interactivity

Resolved merge conflicts

front end to back end

point and html requests

Was able to successfully test

interactivity through API end

Added additional libraries that

Updated product backlog to have descriptions and acceptance criteria relative to professor's feedback

Agreement met for reference story marketmag-47 and

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)	
Task	MARKETMAG-71	Backlog Refinement	Henry Kim	Done	Update sprint and product backlogs to reflect feedback given	# Updated sprint backlog # Updated product backlog # Consensus from team	# Updated developer tasks in backlog, moved them as sub- tasks under appropriate user	

Done

by the professor.

Application front-end

currently two separate entities. This task will

combine the two code

and back-end are

bases into a single

project



Sprint 2 Backlog cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Task	MARKETMAG-33	Sprint 2 Planning (project task)	Henry Kim	Done	Conduct a planning session for sprint 2. Estimate points for stories/tasks and assign to backlog.	# Initial set of stories and tasks reviewed and accepted by dev team. # Recording of session for project artifact list	# Planning session done in online meeting # Recording created summarizing meeting artifacts in MS Teams



Sprint 2 Backlog cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-72	Create stocks page	Aviel Sánchez	Done	*As a* retail investor, *I Want* a webpage where I select stocks, *so that* I can train models and get price predictions	# When the user clicks on the stocks link, the browser should navigate to the stocks page # When the user clicks on home page link, the browser should navigate back to the hope page	# Implemented react router dom which uses links to navigate through the different pages.
Story	MARKETMAG-39	Get risk prediction for a stock preset and displayed on the stocks page	Aviel Sánchez	Done	*As a/an* retail investor, *I Want to* get a risk prediction from a preset stock on	# In the stocks page, when a user clicks one of the displayed stocks, the application will present a	# MARKETMAG-65 - Converted logos into buttons. Added a loading message and risk prediction functions message

MARKETMAG-39

Get risk prediction for a stock preset and displayed on the stocks page

Marketmage for a stock preset and displayed on the stocks page

Marketmage for a stock preset and displayed on the stocks page

Marketmage for a stock preset and displayed on the stocks page

Marketmage for a stock preset and displayed on the stocks page, *So That* I can decide if I wish to buy, sell, or hold that stock

Marketmage for a stock preset and displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

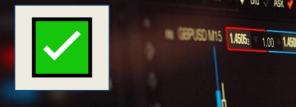
Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart

Marketmage for a stock page, when a user clicks one of the displayed stocks, the application will present a price prediction along with recent price trends in a line chart prediction along with recent price trends in a line chart prediction along with recent price trends in a line chart prediction along with recent price trends in a line chart prediction along with recent price trends in a line chart prediction along with recent price trends in a



MARKETMAG-66

MARKETMAG-65

MARKETMAG-60

Subtask

Subtask

Subtask

Sprint 2 Backlog cont

Backend processes stocks

page sticker via logo

assessment message.

buttons and returns risk

Turn logos into buttons

that sends data. Change

preset text to display

A Stocks page format

response data from

backend.

Implemented function for risk

between frontend and backend.

Also incorporated Abed's save

Converted logos into buttons.

Added a loading message and

Review between Avi's and

Kassandra's stock pages. # Decided to implement Avi's page, but use Kassandra's

risk prediction functions

message.

styling.

& load functions within

backend codebase.

predictions to communicate

		H			5	. Backie	, 001101
Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)

Done

Done

Done

Aviel Sánchez

Aviel Sánchez

Aviel Sánchez

Add backed support

for display functions

capabilities to front

end stocks page

Decide how were

presenting results

Add display

Need backend to

process request from

front end stocks page

Demo stocks page only

had logos and preset

functionality to logos.

Decide how the stocks

text. Add actual

page will look

and send back risk

assessments



for user to navigate

application

Camarillo

Sprint 2 Backlog cont.

homepage, there will be

to get to other pages

links for the user to select

display the correct information

and added working navigation

links to take the user to all

different pages.

Issue Type	Issue key	Summary	Assignee	Status	Description	(Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-73	Create login page	Kassandra Camarillo	Done	*As an* application user, *I Want* a webpage where I can enter my user credentials, *so that* I can securely log into my account	# When the user clicks on the login link the browser should navigate to the login page # When the user clicks on the homepage link, the browser should navigate to the home page	# Created a log-in page which a user will be directed to when log-in is selected on the navigation bar.
Story	MARKETMAG-69	Create home page	Kassandra	Done	*As a/an* retail	# When a user goes to the	# Fixed the homepage to

investor, *I Want* a

homepage, *So that* I can select where I can

navigate to from the

homepage



MARKETMAG-62

Implement home

page design

updates

Kassandra

Camarillo

Subtask

Sprint 2 Backlog cont.

the user and ask to try again

Created a header with links to

each of the application's pages.

Homepage that can

navigate between the

different frontend pages.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)	Custom field (Work Done)
Story	MARKETMAG-47	Create user account/profile	Kassandra Camarillo	To Do	*As a/an* new user, *I Want to* create a user account with my own login name and password, *So that* I can securely log into the application	# When a user at the sign up page enters a unique account name and secure password in the account creation form, the application displays confirmation of account creation. # If and error occurs (name is not unique or password)	

is not unique or password does not meet security minimums) display error to

Done

Planning homepage

homepage design.

layout based on initial



Test Cases

Test ID	Story ID	Feature to Test	Test Case	Test Steps	Expected Result	Actual Result	Pass/Fail	Comments
1	MARKETMA G-75	SaveTrainedModel	Test the ability to save Trained Models	Navigate to the application root / open a shell / excute django's test command (py manage.py test)	A fake model is created and saved to the specified local directory suing the SaveTrainedModel function	a trained model is saved to local files	Pass	
2	MARKETMA G-75	LoadTrainedModel	Test the ability to load Trained Models	Navigate to the application root / open a shell / excute django's test command (py manage.py test)	After a trained model is created and saved to locall files we can load it to the application using the LoadTrainedModel function	a model is loaded succefully	Pass	



Test Cases cont.

Test ID	Story ID	Feature to Test	Test Case	Test Steps	Expected Result	Actual Result	Pass/Fail	Comments
3	MARKETMA G-47	creating users	Testing the ability to create a user and save that user to the database	Navigate to the application root / open a shell / excute django's test command (py manage.py test)	A fake user is created and saved to the database	a user is created and is saved in the database	Pass	
4	MARKETMA G-70	Accessing Prediction Page	Testing the ability to send a request to the stock prediction page	Navigate to the application root / open a shell / excute django's test command (py manage.py test)	the test should recieve a response from the web page and the response code should be 200	recieved a response code of 405	Fail	An HTTP error 405 means that the server configuration refuses access to a resource (URI) due to HTTP method restrictions.



Metrics - Velocity

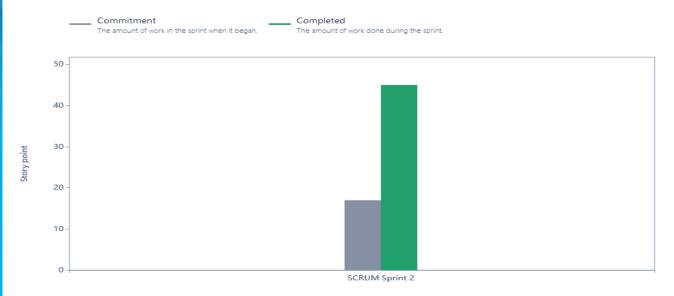
Projects / Artificial Asynchrony / Reports

SEPUSD M15 1.6052 1.00 1.600 9.77 M

Velocity report

> How to read this report

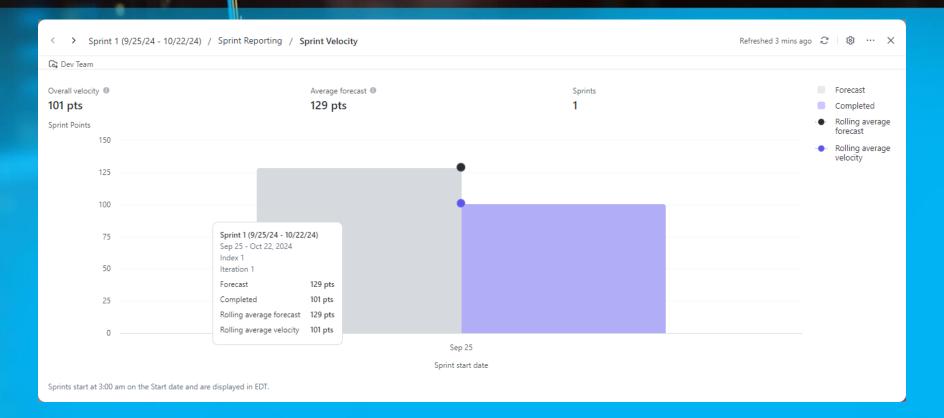




Sprint Comm	itment C	ompleted
SCRUM Sprint 2 17	4	5



Metrics - Velocity History





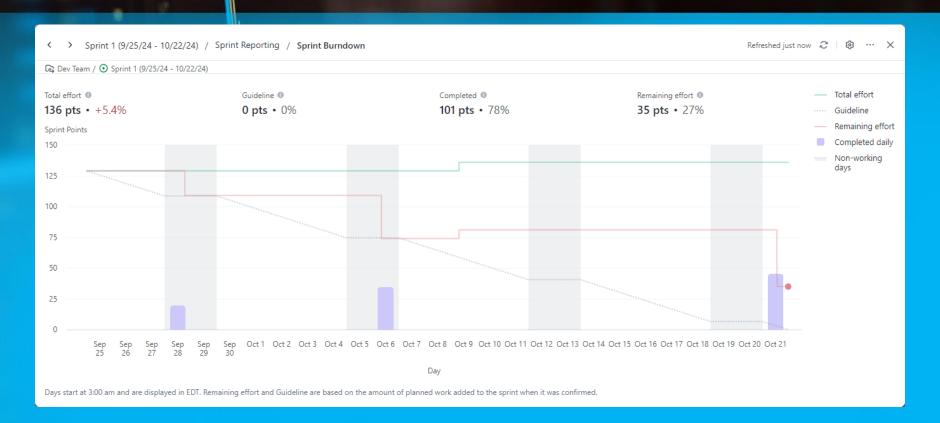
Metrics - Burndown





✓ Bid ✓ Ask ✓ Auto ✓ See

Metrics - Burndown History





Metrics - Completion Ratio

Committed	Completed	Ratio
50	45	90%



Vietrics - Completion Ratio History

Committed	Completed	Ratio
136	101	74%





AA Sprint 2 Retro

What went well 0



♥ Bid √ Ask ♥ Ada ♥

04 SEPUSD M15 1.6052 1.00 1.600 9.77 M

Henry: Usage Jira tools, having code in repo, collaboration and efficeiency was much better. + 0	Kassandra: Met more often, was more productive. + 0
Henry: Finally agreeing on set meeting schedule, very helpful + 0	Abed: having set schedules was very helpful, avoided miscomunication from the last sprint.
Abed: Using git, performance improved dramatically vs last sprint.	Andrew: Jira board helped organize team directions. Better than click up. Better organizaiton
Andrew: Having everyone on the same page within git repo, be on the same page with same	Aviel: Git and github ogranized well. Branch structure was also good and helpful.

+0

Aviel: Cooperation between team members was much better this

codebase

What can be improved 🔾



Aviel: Everybody needs to be at the meetings. Daily scrums need to be updated regularly. + 0	Andrew: Echos Aviel, needs to be at the meetings, update daily scrum. + 0
Abed: Need to improve git structure, have more standardized process, will be more stable VC +0	Kassandra: Uploading code early and often. Don't wait till near end of sprint to push to repo. + 0
Henry: Updating Jira tickets more often. + 0	Aviel: If someone needs assistance, should be able to contact anybody through discord.

Action Items 0



	7.35.57.57.57.57.57
Abed: Creating diagram/ procedure for creating branches.	Andrew: Have push schedule, Sunday suggested.
+0	+0
Aviel: Update work as soon as you progress / finish on the Jira board.	Kassandra: Create some kind of schedule for updating tickets.
+0	+0
Henry: Putting planned vacation/ not working days.	
+0	



Sprint 3 Stories

Planned stories for Sprint 3

Roll over unfinished stories from Sprint 2



Sprint 3 Stories cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-42	View historical price data		To Do	*As a/an* retail investor, *I Want to* to see historical price data of a selected stock over a range of time I can specify, *So that* I can see price performance in that time range	# User can select an option to see historical data for a stock # The application allows the user to select a range of time # Application displays a line graph of price history within the time range
Story	MARKETMAG-43	Save data visualizations		То Do	*As a/an* end user, *I Want to* save off displays and charts the applications has shown me, *So that* I can review them at a later time	# Application offers users an option to save the charts displayed to the user # User can choose to save it to their account or to their local environment



Sprint 3 Stories cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-45	Select the time window to train a stock model		To Do	*As a/an* retail investor, *I Want to* Select the time window to train a stock model, *So that* I can tailor the price predictions to my personal preferences	# Users can select a time range via slider bar or date range to train a stock model # The application displays the settings were saved for the model they are trying to train
Story	MARKETMAG-48	Sort stock watchlist		То Do	*As a/an* retail investor, *I Want to* quickly sort and search through my watchlist based on price, trend, name, etc., *So that* I can easily see which stocks have been performing well/poorly quickly	# User can sort through their watchlist based on options provided by the application (such as current price, name, confidence)



Sprint 3 Stories cont.

Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-61	Create watch list page	Andrew Rowan	То Do	*As a* retail investor, *I Want* a webpage where I can add stock tickers to a watchlist, *So that* I can easily track my personal stock interests	# Users can navigate to a watchlist page when clicking on the watchlist link on the home page # Users can navigate back to the home page when clicking on the home page link on the watchlist

Story MARKETMAG-74 Create sign up page

To Do

As an application user, *I Want* a sign up webpage, *so that* I can create a new user account

When the user clicks on the sign up page

When the user clicks on the sign up page

When the user clicks on the sign up page

When the user clicks on the homepage link, the browser should navigate to the sign up page

When the user clicks on the homepage link, the browser should navigate to the home page



Sprint 3 Stories cont.

		N .				
Issue Type	Issue key	Summary	Assignee	Status	Description	Custom field (Acceptance Criteria)
Story	MARKETMAG-76	Add log out function		To Do	*As a/an* app user, *I Want to* log out from my account, *So that* other people	# When user clicks on the logout button, the application

can't access my account logs the user off # When logged off, user will be redirected back to homepage Save stock to watchlist To Do *As a* retail investor, *I Want* to save a Story **MARKETMAG-77** stock to my watchlist in the watch list page,

When user enters a valid stock symbol in the watchlist page, it *So that* I can customize and easily track is added to the user's watchlist my personal stock interests table.



Summary

Issue key

Issue Type

Sprint 3 Stories cont.

Custom field (Acceptance

presented to the user.

					Criteria)
Task	MARKETMAG-78	Improve Prediction Quality	To Do	*As a* Hedge fund manager*, I want* an application that can give me accurate and relevant prediction information*, so that* I can implement safer and more reliable trade and investment strategies that outperform traditional strategies	# When the user submits a request for a prediction, the user receives a predicted stock price, a graph displaying the predicted stock trajectory, and a risk level # When sharing prediction results, the user will also see how this prediction compares to traditional strategies
Story	MARKETMAG-83	View watchlist contents	To Do	*As a* retail investor, *I Want* to save a stock to my watchlist in the watch list page,	# When user clicks a view watchlist button, a table is

Status

Description

So that I can customize and easily track

my personal stock interests

Assignee



✓ Bid ✓ Ask ✓ Acts ✓

Market Magician

Maginficent Seven Stocks

The Magnificent Seven are a group of seven of the most influential companies in the U.S. stock market:

Alphabet: The parent company of Google

Amazon: A leader in e-commerce and cloud computing

Apple: A company with a strong ecosystem of products and services

Meta: Formerly known as Facebook

Microsoft: A company with a strong ecosystem of products and services

Nvidia: A leader in Al chip development

Tesla: A leader in electric vehicles

TEST

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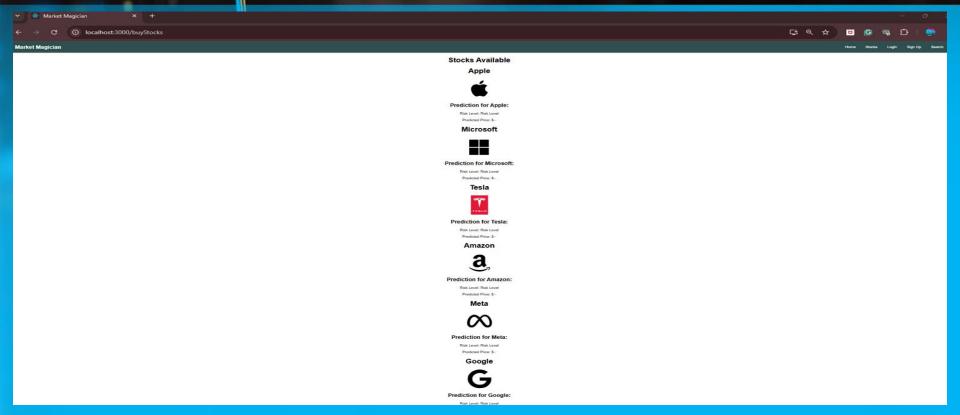
DraftKings DKNG

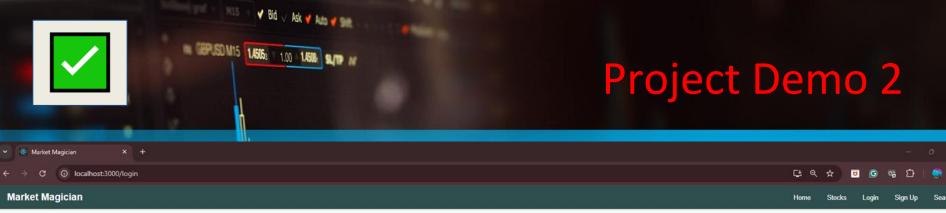
Meta Platforms META

Palantir Technologies PLTR



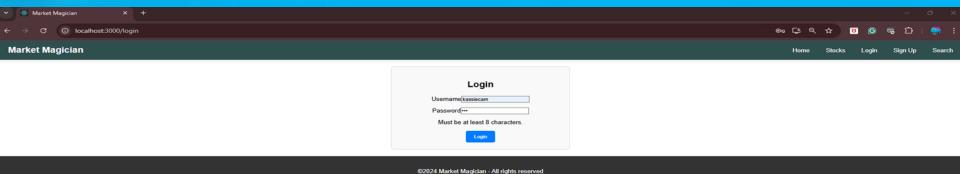
Project Demo 2

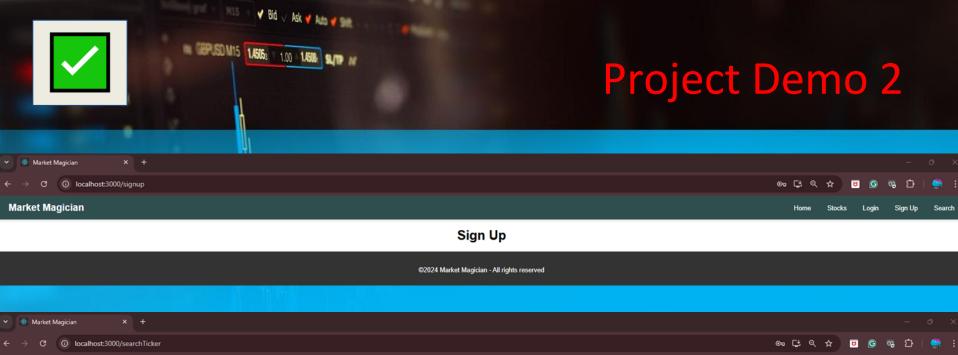


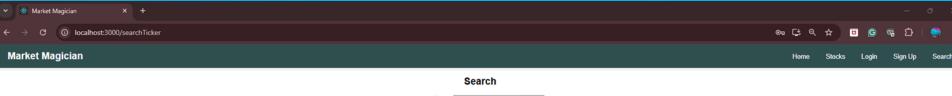




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Stock Ticker: Submit

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https://github.com/htmw/2024F-Artificial-Asynchrony/wiki