

Stockbook – A social media stock tracker web app

By

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Completed as

Mini Project

Submitted to

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Department of Computer Science and Engineering

Graphic Era Deemed To be University

CERTIFICATE

This is to certify that Project Report entitled “Stockbook – A social media stock tracker web app” which is submitted by Pradyumn Prakash Singh as mini project for III semester and for the award of certificate for the same from Department of computer science engineering Graphic Era Deemed to be University is a record of the candidate own work carried out by him under my supervision. The matter embodied in this Report is original and has not been submitted for the award of any other certificate.

Acknowledgement

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have got this all along the completion of my project. All that I have done is only due to such supervision and assistance and I would not forget to thank them.

I respect and thank Dr. Sachin Sharma, for providing me an opportunity to do the project work in and giving us all support and guidance which made me complete the project duly. I am extremely thankful to him for providing such a nice support and guidance, although he had busy schedule managing the academic affairs.

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ABSTRACT

In today's era investing in stock market has become one of the biggest ways of investing money for better future returns.

But keeping track of the market and exchange can be a tedious and time consuming task. In other words investing in stock market for a regular working people is not feasible as they couldn't dedicate time for it.

Stockbook is a one stop solution where they can track their stocks and also watch the stocks their friends are following.

Stockbook is a rails based social media web app that is easy to use and gets you live prices for the stocks you are following. It uses stock_quote which is a ruby based gem that uses IEX trading API to get live feed from the stock market.

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1. Project Overview

1.1 Project Effort

Effort of this project is to design and implement a solution for analyzing and processing airlines data that runs on a Hadoop cluster and takes advantage of the distributed computing and storage capabilities of the cluster to handle large datasets.

1.2 Objective

1.2.1. To create a rails based web app to get live stock prices.

1.2.2. To add a basic authentication system to enable user to create account and login

1.2.3. To allow user to track stock and build a portfolio

1.2.4. To allow user to add friend and see their portfolio

1.3 Tools

Programming Language: Ruby, HTML, CSS, JavaScript

Framework: Rails

IDE: AWS cloud9

Operating system: Ubuntu 14.04

1.5 Operating Environment or Software Environment

The hardware and software that we are using in this project are

1. Intel core i5
2. 8 GB RAM
3. 1 TB storage
4. Windows 10

2. Ruby on Rails

2.1 What is Ruby?

Ruby is a dynamic, interpreted, reflective, object-oriented, general-purpose programming language designed and developed by Yukihiro Matsumoto in Japan during in the mid-1990s. It is influenced by Perl, Smalltalk, Eiffel, Ada, and Lisp. It supports multiple programming paradigms including functional, object-oriented, and imperative.

2.2 What is Ruby on Rails?

Ruby on Rails or Rails, is a server-side web application framework written in Ruby under the MIT License. Rails is a model–view–controller (MVC) framework, providing default structures for a database, a web service, and web pages. It encourages and facilitates the use of web standards such as JSON or XML for data transfer, HTML, CSS and JavaScript for user interfacing. In addition to MVC, Rails emphasizes the use of other well-known software engineering patterns and paradigms, including convention over configuration (CoC), don't repeat yourself (DRY), and the active record pattern.

Ruby on Rails' emergence in the 2000s greatly influenced web app development, through innovative features such as seamless database table creations, migrations, and scaffolding of views to enable rapid application development. Ruby on Rails' influence on other web frameworks remains apparent today, with many frameworks in other languages borrowing its ideas, including Django in Python, Catalyst in Perl, Laravel in PHP, Phoenix in Elixir, and Sails.js in Node.js.

3. Current system V/S Proposed system

3.1 Drawbacks of current system

Current apps available for checking stock prices are slow and user cannot check price of multiple stocks at a time. Also user cannot watch their friends portfolio.

3.2 Advantages of proposed system

Proposed system provides user to login and build a portfolio and check multiple stock prices at the same time. User can also add friends and view their portfolio too.

4. Hosting the application.

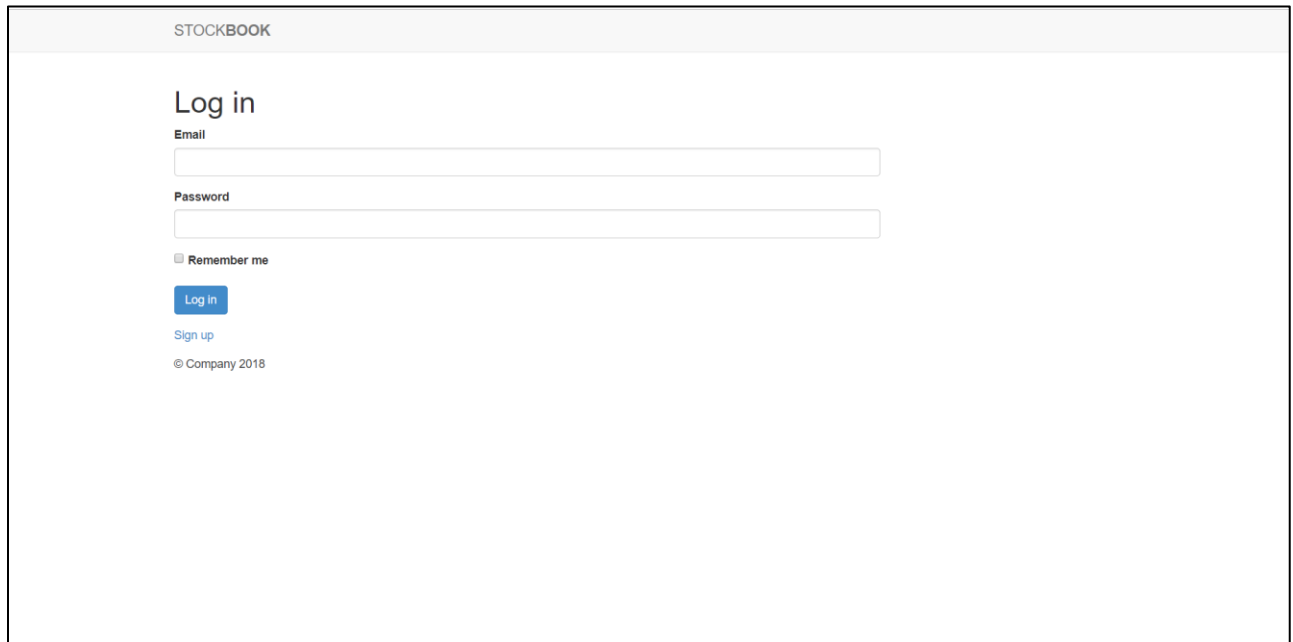
This application is hosted on Heroku which is famous cloud based platform as a service. Heroku is one the first cloud platforms. Initially it only supported Ruby based application but now supports Java, Node.js, Scala, Clojure, Python, PHP, and Go.

5. Links

Github repository: <https://github.com/coderSprout/stockbook>

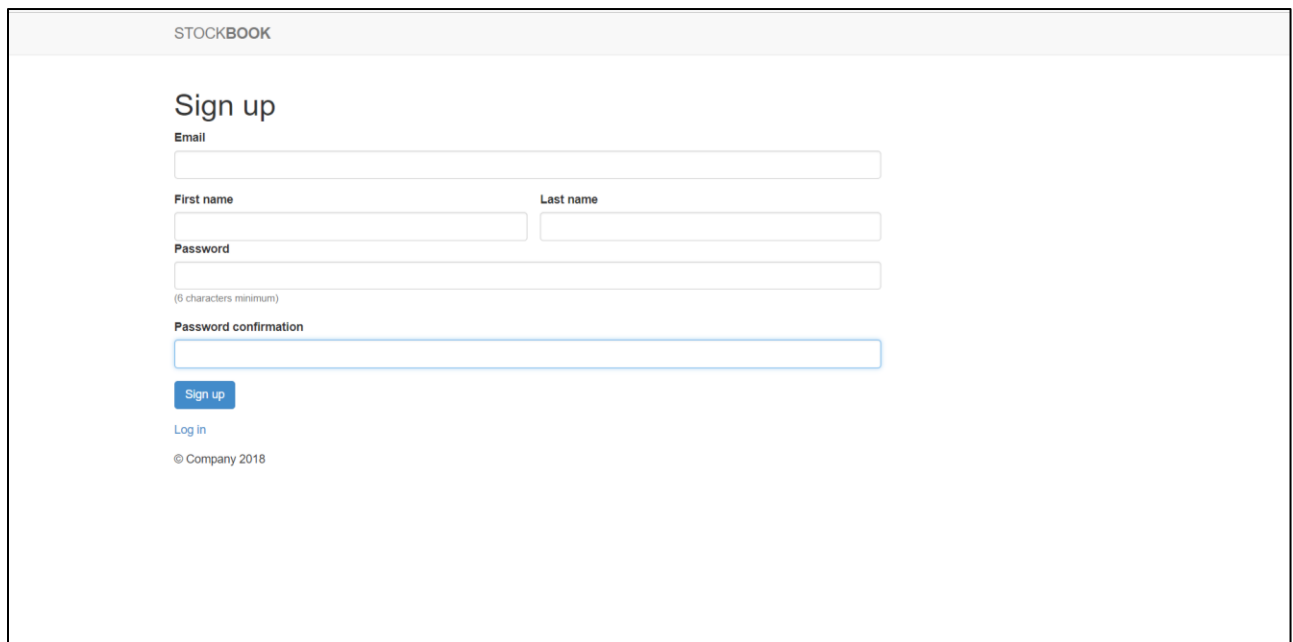
Web app: <http://stock-book.herokuapp.com/>

6. Application Screenshot



The screenshot shows the login page of an application named STOCKBOOK. The page has a light gray header with the text "STOCKBOOK". Below the header, the title "Log in" is displayed. There are two input fields: "Email" and "Password". Below the "Password" field, there is a checkbox labeled "Remember me". A blue button labeled "Log in" is positioned below the checkbox. Below the "Log in" button, there is a link labeled "Sign up" and a copyright notice "© Company 2018".

Figure 1 Login Page



The screenshot shows the signup page of an application named STOCKBOOK. The page has a light gray header with the text "STOCKBOOK". Below the header, the title "Sign up" is displayed. There are four input fields: "Email", "First name", "Last name", and "Password". Below the "Password" field, there is a note "(6 characters minimum)". Below the "Password" field, there is a "Password confirmation" field. A blue button labeled "Sign up" is positioned below the "Password confirmation" field. Below the "Sign up" button, there is a link labeled "Log in" and a copyright notice "© Company 2018".

Figure 2 Signup Page

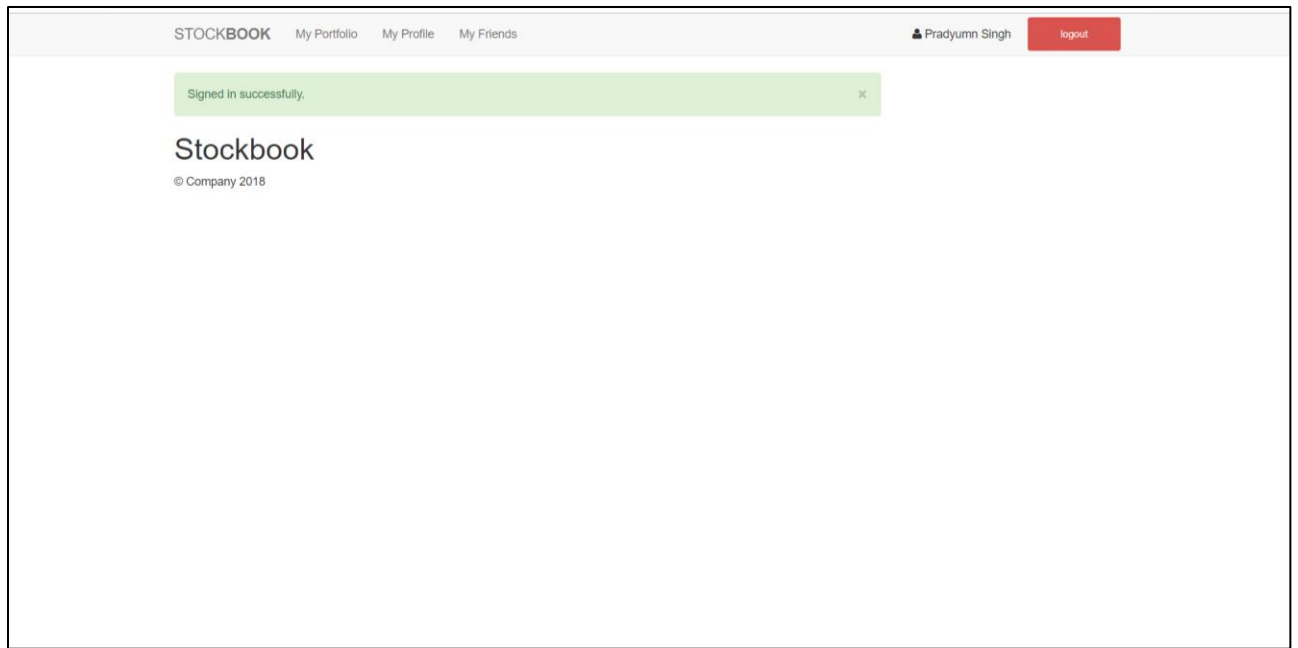


Figure 3 Welcome page

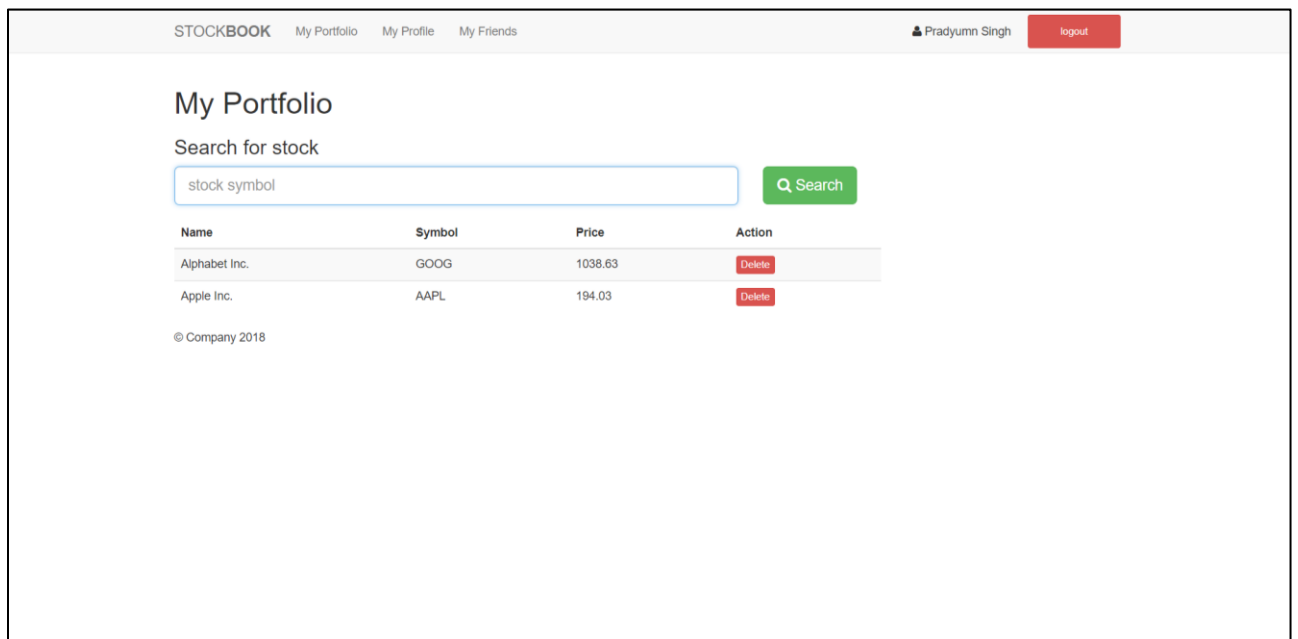


Figure 4 User Portfolio

STOCKBOOK

My Portfolio

My Profile

My Friends

Pradyumn Singh

logout

Edit User

Email

pradyumn@singh.com

First name

Pradyumn

Last name

Singh

Password

leave blank if you don't want to change it

Password confirmation

Current password

we need your current password to confirm your changes

Update

Unhappy?? [Cancel my account.](#)

[Back](#)

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Figure 5 Edit User Details

STOCKBOOK

My Portfolio

My Profile

My Friends

Pradyumn Singh

logout

Search for friends

Name or Email

Search

My friends

Name	Email	Actions
Ankur Singh	ankur@singh.com	View Remove

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https://learning-ror-glitchcoder.c9users.io/my_friends

Figure 6 User's Friends

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