Test Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test | Prerequisites | Steps | Expected Result | Outcome |
| Create CSV | * Application running * User signed-in * User on chart page * There is no local stockdata file | 1. Click “load data from Yahoo Finance” 2. Wait for data to be loaded 3. Click “save to CSV” | * The data from Yahoo Finance will be displayed * A new file (‘data/localstorage.csv’) will be created containing the data from Yahoo Finance |  |
| Load CSV | * Application running * User signed-in * User on chart page * There is a local stockdata file | 1. Click “load data from file” | * The data in the file (‘data/localstorage.csv’) will be displayed |  |
| Update User | * Application running * There is a user file * User signed-in * User on chart page | 1. Click “user” 2. Change the username 3. Change the user password 4. Change the user balance 5. Click “update” | * Dialog message appears stating that the change was successful * The user is logged out * The user cannot sign-in again with the original credentials * ‘users.csv’ contains the updated credentials |  |
| Train Model | * Application running * User signed-in * User on chart page * There is a local stockdata file | 1. Click “load data from file” 2. Wait for data to be loaded 3. Click “train model” 4. Wait for model training to be completed | * The predicted values for the last month are displayed on the chart * A new file (‘data/trainedmodel’) will be created containing the model data |  |
| Load Model | * Application running * User signed-in * User on chart page * Data is loaded * There is no model loaded * A model saved to ‘data/trainedmodel’ | 1. Click “load model” | * Model loaded message appears * The predicted values for the last month are displayed on the chart |  |
| Create User File | * Application running * There is no user file * User on login page | 1. Click “Register” 2. Enter details for a new user 3. Click “Register” | * Registration successful message appears * ‘data/users.csv’ is created containing the new user |  |
| Load Data from Yahoo | * Application running * User signed-in * User on chart page | 1. Click “load data from Yahoo Finance” 2. Wait for data to be loaded | * The data from Yahoo Finance will be displayed |  |
| Get Forecast | * Application running * User signed-in * User on chart page * Data is loaded * Model is loaded | 1. Click “forecast” 2. Select a stock from the dropdown list 3. Select a date in the future 4. Enter an amount of stocks to purchase | * The total price should equal the price of the stock for the given day multiplied by the amount purchased |  |