**DECLARATION**

I hereby declare that the project report entitled “**GOLD PRICE PREDICTION BASED ON MACHINE LEARNING**” Submitted to the **Department of MCA at Nehru College Of Engineering And Research Centre** in partial fulfillment of the requirement for the award of degree in **MASTER OF COMPUTER APPLICATIONS** from **ABDUL KALAM TECHNLOGICAL UNIVERSITY,** is a record of original work done by me under the guidance of **DR.VINEETHA K R**, Associate Professor of the Department of MCA, during my Fourth Semester MCA course period 2022.

**NAYANA GEORGE**

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**Abstract**

This article is based on a study conducted to understand the relationship between gold price and selected factors influencing it, namely stock market, crude oil price, rupee dollar exchange rate, inflation and interest rate. Monthly price data for the period January 2000 to December 2018 was used for the study. The data was further split into two periods, period I from January 2000 to October 2011 during which the gold price exhibits a raising trend and period II from November 2011 to December 2018 where the gold price is showing a horizontal trend. Three machine learning algorithms, linear regression, random forest regression and gradient boosting regression were used in analyzing these data. It is found that the correlation between the variables is strong during the period I and weak during period II. While these models show good fit with data during period I, the fitness is not good during the period II. While random forest regression is found to have better prediction accuracy for the entire period, gradient boosting regression is found to give better accuracy for the two periods taken separately.

**Contents**

|  |  |  |
| --- | --- | --- |
| **Declaration** | | **i** |
| **Certificate** | | **ii** |
| **Acknowledgements** | | **iii** |
| [**Abstract**](#_bookmark0) | | **iv** |
| [**Contents**](#_bookmark1) | | **v** |
| [**List of Figures**](#_bookmark2) | | **vii** |
| [**List of Tables**](#_bookmark3) | | **viii** |
| [**1 Introduction**](#_bookmark4) | | **1** |
| [1.1 Background](#_bookmark5) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1 |
| [1.1.1 Motivation](#_bookmark6) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1 |
| [1.2 Objective](#_bookmark7) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1 |
| [1.3 Contribution](#_bookmark8) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2 |
| [1.4 Report Organization](#_bookmark9) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2 |
| [**2 Literature Survey**](#_bookmark10) | | **3** |
| [**3 Methodology**](#_bookmark11) | | **4** |
| [3.1 Introduction](#_bookmark12) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 4 |
| 3.1.1Modules and description. . . . . . . . . . . . . . . . . | | 4 |
| [3.1.2 Admin](#_bookmark14) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 5 |
| [3.2 Workflow](#_bookmark15) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 7 |
|  |
| [3.3 Implementation](#_bookmark18) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 8 |
| [**4 Agile Methodology**](#_bookmark19) | | **9** |
| [4.1 Introduction](#_bookmark20) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 9 |
| [4.2 User Story](#_bookmark21) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 11 |
| [4.3 Product Backlog](#_bookmark23) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 11 |

*Contents*

* 1. [Project Plan](#_bookmark24) 12
  2. [Sprint Backlog (Plan)](#_bookmark27) 13
  3. [Sprint Backlog (Actual)](#_bookmark32) 19
  4. [Product Backlog Review](#_bookmark37) 24
  5. [Sprint Review](#_bookmark42) 26
  6. [Testing and Validation](#_bookmark47) 28
  7. [Git](#_bookmark51) 29

1. [Result and Discussions](#_bookmark53) 30
   1. [database](#_bookmark54) 30
2. [Conclusion](#_bookmark56) 31

[References](#_bookmark57) 32

[Appendix](#_bookmark58) 34

[Source Code](#_bookmark59) 34

[Output](#_bookmark60) 44

[Git History](#_bookmark70) 51

**List of Figures**

|  |  |  |
| --- | --- | --- |
| [3.1](#_bookmark16) | [Workflow Diagram](#_bookmark16) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 7 |
| [5.1](#_bookmark55) | [database](#_bookmark55) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 30 |
| [A. 1](#_bookmark61) | [login-User Interface](#_bookmark61) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 44 |
| [A. 2](#_bookmark62) | [Registration form](#_bookmark62) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 44 |
| [A. 3](#_bookmark63) | [merchant home](#_bookmark63) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 45 |
| [A. 4](#_bookmark64) | [add products](#_bookmark64) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 45 |
| [A. 5](#_bookmark65) | [view products](#_bookmark65) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 46 |
| [A. 6](#_bookmark66) | [user login](#_bookmark66) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 47 |
| [A. 7](#_bookmark67) | [user registration](#_bookmark67) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 48 |
| [A. 8](#_bookmark68) | [scanQR](#_bookmark68) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 49 |
| [A. 9](#_bookmark69) | [Results](#_bookmark69) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 50 |
| [A. 10](#_bookmark72) | [Git Graph 1](#_bookmark72) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 51 |
| [A. 11](#_bookmark71) | [Git Graph 2](#_bookmark71) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 51 |

**List of Tables**

* 1. [User Story](#_bookmark22) 11
  2. [Product Backlog](#_bookmark25) 12
  3. [Project plan](#_bookmark26) 12
  4. [Sprint Backlog (Plan) - Sprint 1](#_bookmark28) 15
  5. [Sprint Backlog (Plan) - Sprint 2](#_bookmark29) 16
  6. [Sprint Backlog (Plan) - Sprint 3](#_bookmark30) 17
  7. [Sprint Backlog (Plan) - Sprint 4](#_bookmark31) 18
  8. [Sprint Backlog (Plan) - Sprint 1](#_bookmark33) 20
  9. [Sprint Backlog (Plan) - Sprint 2](#_bookmark34) 21
  10. [Sprint Backlog (Plan) - Sprint 3](#_bookmark35) 22
  11. [Sprint Backlog (Plan) - Sprint 4](#_bookmark36) 23
  12. [Product Backlog Review (Sprint1)](#_bookmark38) 24
  13. [Product Backlog Review (Sprint2)](#_bookmark39) 24
  14. [Product Backlog Review (Sprint3)](#_bookmark40) 25
  15. [Product Backlog Review (Sprint4)](#_bookmark41) 25
  16. [Sprint Review (Sprint1)](#_bookmark43) 26
  17. [Sprint Review (Sprint2)](#_bookmark44) 27
  18. [Sprint Review (Sprint3)](#_bookmark45) 27
  19. [Sprint Review (Sprint4)](#_bookmark46) 27
  20. [Testing and Validation(Sprint1)](#_bookmark48) 28
  21. [Testing and Validation(Sprint2)](#_bookmark50) 28
  22. [Testing and Validation(Sprint3)](#_bookmark49) 28

*List of Tables*

* 1. [Testing and Validation(Sprint4)](#_bookmark52) 29

**Chapter 1 Introduction**

Authors discuss the influence of US dollar on setting of crude oil and gold rates in the international market. They also analyze the influence of US dollar with respect to mutual funds, financial markets, interest rates of Federal Reserve, inflation, and economic recession between the period 1996 and 2009. In finance, an investment is purchase of a monetary asset with the idea that the asset will provide income in the future or will later be sold at a higher price for a profit. The Indian economy being one of the fastest growing in the world has resulted in higher disposable income level and a plethora of investment avenues. There are a number of investment avenues available for investors, which includes stocks, deposits, commodities and real estate. Gold is another asset which is being considered as an attractive investment avenue by many investors due to its increasing value and the area of usage. Investor’s preference for gold as a protective asset increases due to their negative expectations concerning the situation in the developed foreign exchange markets and the capital markets, they take in to consideration major world events which may have affected US dollar rates. Gold is used both as a commodity and as a financial asset. Gold behaves less like a commodity than long lived assets such as stocks or bonds. This raising value of gold coupled with the volatilities and fall in prices of other markets like capital markets and real estate markets has attracted more and more investors towards gold as an attractive investment. But, of late price of gold is also witnessing high volatility and investments in gold are turning to be riskier. There is a fear as to whether these high prices are sustainable and when the prices would reverse. Even though there are a number of studies analyzing the correlation between the price of gold and some economic variables. It is still considered that a study to reveal the influence and impact of various macro-economic factors on the price of gold in the present situation will be helpful in determining the dynamic effects of these relationships. Thus, this project is aimed at studying the relationship between gold price and selected economic and market variable. Understanding such relationship will be helpful not only to monetary policymakers but also to investors, fund managers and portfolio managers to take better investment decisions in the market. Further this study uses machine learning algorithms, linear regression, random forest regression in analyzing these data. This paper is structured with literature review in the next section followed by sections on data and methodology, results and discussion and conclusion.

**Machine Learning**

Machine learning is a data analytics tool which automates the building of analytical models. It is a branch of artificial intelligence focused on the premise that systems with minimal human input can learn from data, recognize trends and make decisions. Machine learning is aimed at developing systems capable of identifying trends in the data, learning from it without human involvement and clear reprogramming. To solve the question of price prediction, data scientists will first understand what data to use to train machine learning models, and this is precisely why concise analytics are needed.

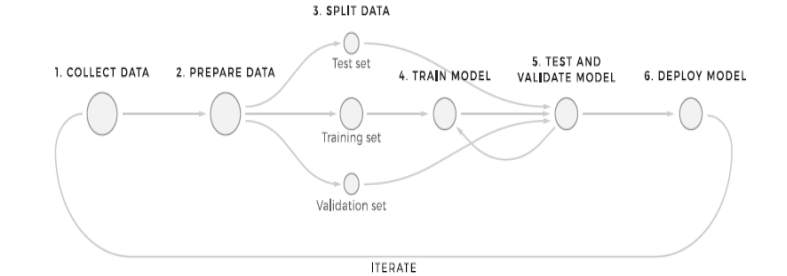
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Fig.1 Methodology used for price prediction using machine learning

**Linear regression**

Linear Regression is an algorithm of machine learning, based on supervised learning. It does the role of regression. Regression is a process using independent predictors to model a target value. This approach is often used to forecast and figure out the relationship between variables between cause and effect. Regression methods vary mainly in terms of the number of independent variables and the form of relationship between the independent and dependent variables. Regression analysis is a reliable method for determining which variables affect a topic of interest. The regression process allows you to determine confidently which factors matter most, which factors can be ignored, and how those factors influence each other.

To completely understand regression analysis, comprehension of the following words is essential:

* Dependent Variable: The main factor we’re trying to understand or predict is this.
* Independent Variables: These are the factors you hypothesize affect your variable dependent on
  1. **Background**

The goal of this project was to predict future gold price based on**previous gold price.** Indian customers invest on all time high figure of Rs 88,056 crore on gold on 2008. Investing in gold has developed over a period of time in conventional forms by purchasing jewelry or through modern methods, either by purchasing gold coins and bars or by investing in Gold Exchange traded fund (Gold ETF). The factors affect gold price are

* Value of U.S dollar
* Investment demand (ETF)
* Central bank reserves-though the United States has abandoned the gold standard most central banks build up reserves in gold
* Wealth protection – higher demand for gold for wealth protection higher price will be
* Jewelry and industrial demand.

### Motivation

The main motivation behind this research was to improve the trade values in stock market and other financial states which depend on the varying gold rates. The motivation for these studies is naturally to predict the future prices so that gold can be bought and sold at profitable positions and reduce the risk of investment.

* 1. **Objective**

The idea of this project came into existence because of the necessity of prediction of gold price in stock market to raise the finance state.

The objectives of this project are:

1. To **predict future gold price based on previous gold price** to avoid the huge lose
2. To help the investors turn to stock market which enables them to make more profits in a short time rather than a long-term investment in gold.
   1. **Contribution**

The major contributions in this project are:

1. Designed and developed a new system for predicting gold price prediction in effective way
2. Major contribution to the stock market
   1. **Report Organization**

The project report is divided into six sections Section 2 describes literature survey. Section 3 describes the methodology and section 4 describes agile methodology used for implementing the project. Section 5 gives the results and discussions. Finally, Section 6 gives the conclusion

Chapter 2. *literature survey*

**Chapter 2 Literature Survey**

Gold is the only asset that retains its worth even through the political and economic downturn. The gold values are often directly linked to other resources. Future gold price forecast is the investors' alert mechanism because of unpredictable market risk. Therefore, precise forecasting of gold prices is needed to predict the market patterns.

The research topic of Xiaohui Yang was "The Prediction of Gold Price Using ARIMA Model", and author use text mining and artificial neural networks (ANN) to forecast the gold prices and compare their results with the autoregressive-moving average (ARMA) model. ARMA model is the most frequently used statistical model for analyzing time series data. ARMA model consists of two parts, the first part AR, involves regressing the variable on its own past values. The second part MA, involves modeling the error term as a linear combination of error terms occurring simultaneously and at various times in the past. Also, author use the ARMA model for predicting gold rates but use monthly rates of gold of past 124 months. They forecast actual gold prices and achieve an accuracy of 66.67%. author use ARMA model but compare their results with ANN and show that ANN performs better than ARMA.

Manjula K. A., Karthikeyan P, "Gold Price Prediction using Ensemble based Machine Learning Techniques", and remarked their findings on an investigation led to comprehend the connection between gold cost and chose factors affecting it, to be specific financial exchange, unrefined petroleum value, rupee dollar conversion scale, swelling and loan cost. Month to month value information for the period January 2000 to December 2018 was utilized for the examination. The information was additionally part into two periods, period I from January 2000 to October 2011 during which the gold value displays a raising pattern and period II from November 2011 to December 2018 where the gold cost is indicating a flat pattern. Three AI calculations, direct relapse, arbitrary woodland relapse and inclination boosting relap were utilized in examining this information. It is discovered that the connection between the factors is solid during the period I and frail during period II. While these models show solid match with information during period I, the wellness isn't acceptable during the period II. While irregular backwoods relapse is found to have better forecast precision for the whole-time frame, angle boosting relapse is found to give better exactness for the two-time frames taken independently.

Mrs. B. Kishori 1, V. Preethi made research on “Gold Price forecasting using ARIMA model” and says that gold is metal which is significant as fiscal resource, adornments, Investment choice. As venture choice it snatches the fascination of financial specialists by its high heightening costs. In any case, the gold cost isn't steady it varies consistently because of different reasons. This paper is intended to figure the gold value utilizing ARIMA model. For gauging it utilizes memorable information.

R. Hafezi, A. N. Akhavan has done research on the “Forecasting Gold Price Changes” The figure of vacillations of costs is the significant worry in money related markets. Therefore, building up a precise and vigorous determining choice model is basic for financial specialists. As gold has demonstrated an exceptional capacity to smooth swelling variances, lead representatives utilize gold as a cost controlling switch. Hence, more data about future gold value patterns will help settle on the firm choices. This paper endeavors to propose a shrewd model established by counterfeit neural systems (ANNs) to extend future costs of gold. The proposed clever system is furnished with a meta-heuristic calculation called BAT calculation to make ANN fit for following variances. The structured model is contrasted with that of a distributed logical paper and other serious models, for example, Autoregressive Integrated Moving Average (ARIMA), ANN, Adaptive NeuroFuzzy Inference System (ANFIS), Multilayer Perceptron (MLP) Neural Network, Radial Basis Function (RBF) Neural Network and Generalized Regression Neural Networks (GRNN). So as to assess model execution, Root Mean Squared Error (RMSE) was utilized as a blunder list. Results show that the proposed BAT-Neural Network (BNN) beats both customary and current estimating models

Praise-Winsten procedure was used for removing correlated error terms. Using only these four attributes they achieved 96.92% accuracy. In [9], authors use logistic regression (LR) model and achieved 63.76% precision, 63.89% recall and 61.92% accuracy using eight years of data. They conclude that LR outperforms the SV

**Chapter 3 Methodology**

* 1. **Introduction**

we can understand that the system will predict future gold prices for twenty-four hours with references to the present rates and us dollar rates, so that we can overcome the financial crisis in stock market

### MODULES AND DESCRIPTIONS

**Admin**

* 1. View user and update delete them
  2. view prediction by user
  3. view gold shop owner

|  |  |  |
| --- | --- | --- |
| **NAME** | **TYPE** | **DESCRIPTION** |
| Id | Int | Id number |
| Username | Var char | Username |
| Password | Var char | Username |

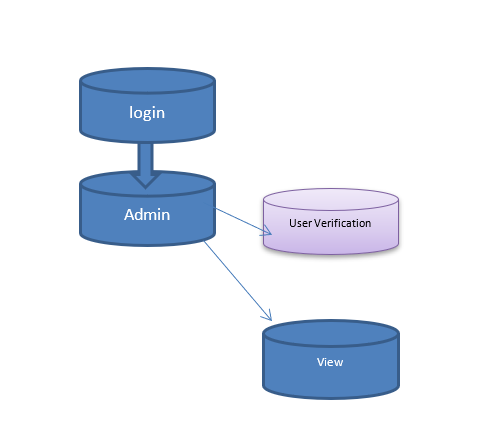


Figure 1 Admin module

##### User module

1. Current gold price
2. View prediction

##### 

##### 

##### Figure 2 User module

##### User\_register

##### 

##### Table 1

##### Prediction

##### 

##### 

##### Table 2

##### 

##### Product

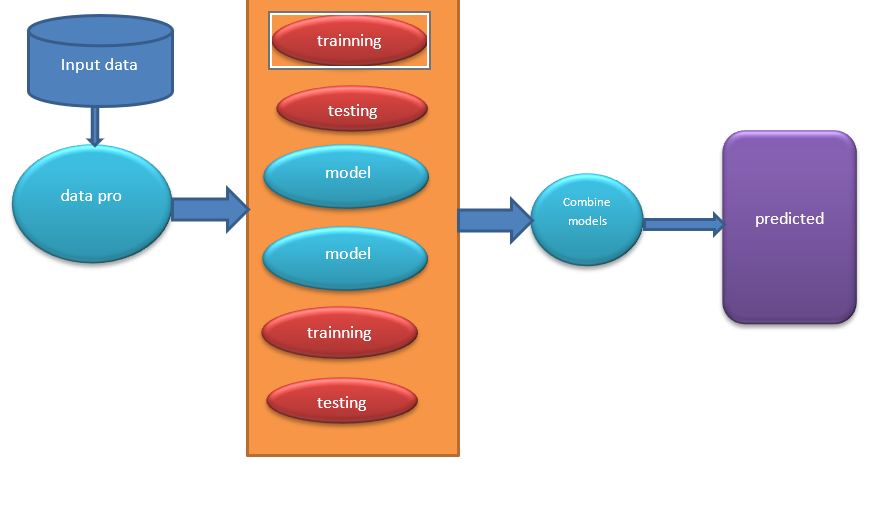
##### 

##### Table 3

### Admin

Admin controls the registration of users and view the registered customers

* 1. **Workflow**

****

The Architectural diagram of the system is given in Figure 3.1

Figure 3: Workflow Diagram

In this system architecture fig.3 User has to login into the website

.

**Software Environment**

**Python**

Python is a language of programming that is interpreted, of high level, of general use. The philosophy of Python’s design, established by Guido van Rossum and first published in 1991, emphasizes code reading by promoting the use of large white space. The software structures and object-oriented methodology was designed to help developer, with large and small ventures, to build clear and logical code. Python is dynamically typed and garbage is collected. It embraces several programming paradigms, including organized (particularly procedural), object-oriented, and functional programming.

* **Python is Interpreted** − Python is processed at runtime by the interpreter. You do not need to compile your program before executing it. This is similar to PERL and PHP.
* **Python is Interactive** − You can actually sit at a Python prompt and interact with the interpreter directly to write your programs.
* **Python is Object-Oriented** − Python supports Object-Oriented style or technique of programming that encapsulates code within objects.
* **Python is a Beginner's Language** − Python is a great language for the beginner-level programmers and supports the development of a wide range of applications from simple text processing to WWW browsers to games.

### SYSTEM TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product It is the process of exercising software with the intent of ensuring that the

Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of tests. Each test type addresses a specific testing requirement.

**TYPES OF TESTS**

**Unit testing**

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

**Integration testing**

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

**System Test**

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

**White Box Testing**

White Box Testing is a testing in which in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is purpose. It is used to test areas that cannot be reached from a black box level.

**Black Box Testing**

Black Box Testing is testing the software without any knowledge of the inner workings, structure or

language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box. The test provides inputs and responds to outputs without considering how the software works.

**Unit Testing:**

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

# Integration Testing

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects. The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level – interact without error.

**Test Results:** All the test cases mentioned above passed successfully. No defects encountered.

* 1. **Implementation**

In this project, one of the main steps is gold price prediction. Python is an interpreted, high-level and general-purpose programming language. Python is [dynamically-typed](https://en.wikipedia.org/wiki/Type_system#DYNAMIC) and [garbage-collected](https://en.wikipedia.org/wiki/Garbage_collection_(computer_science)). It supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming.

Here we use python framework Django for coding an as ad development platform. Pycharm

which proves to work great due to its excellence in literate programming , where friendly

code is punctuated within code blocks, has been used. Django is a free, open source, high

level python web framework that promotes rapid development and clean design

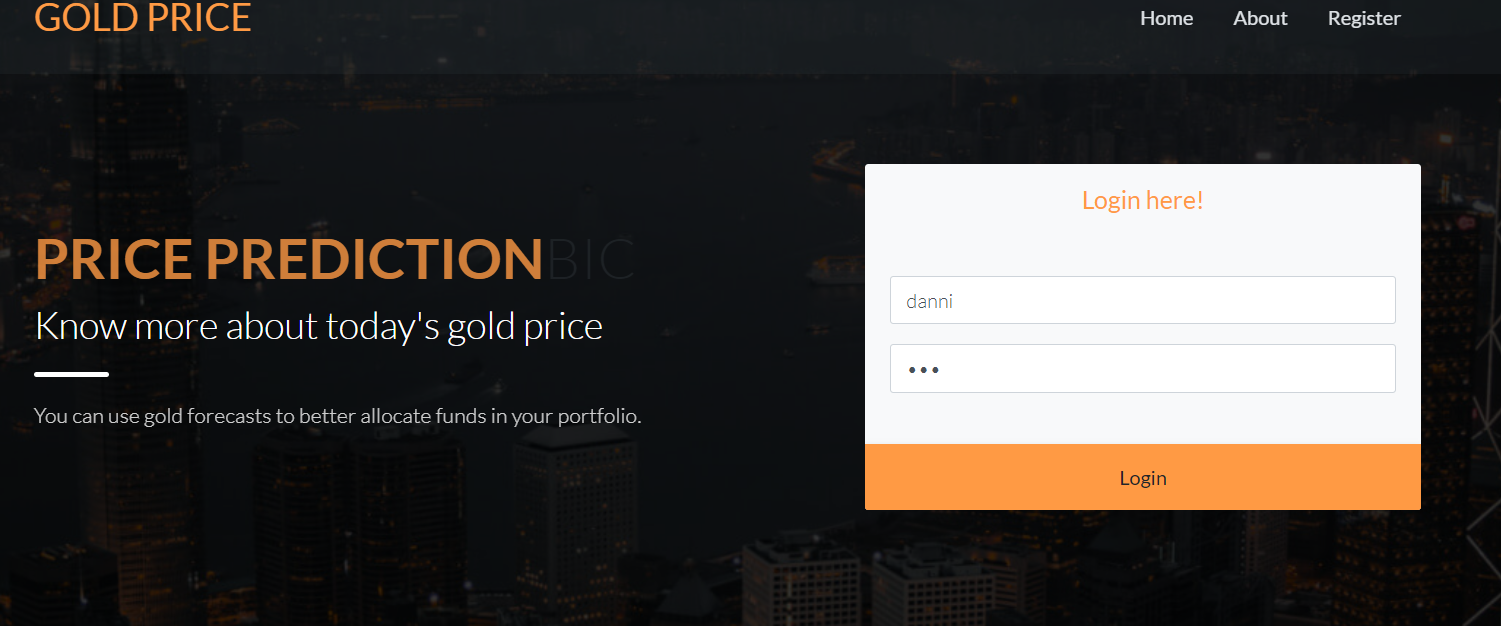


Figure 4

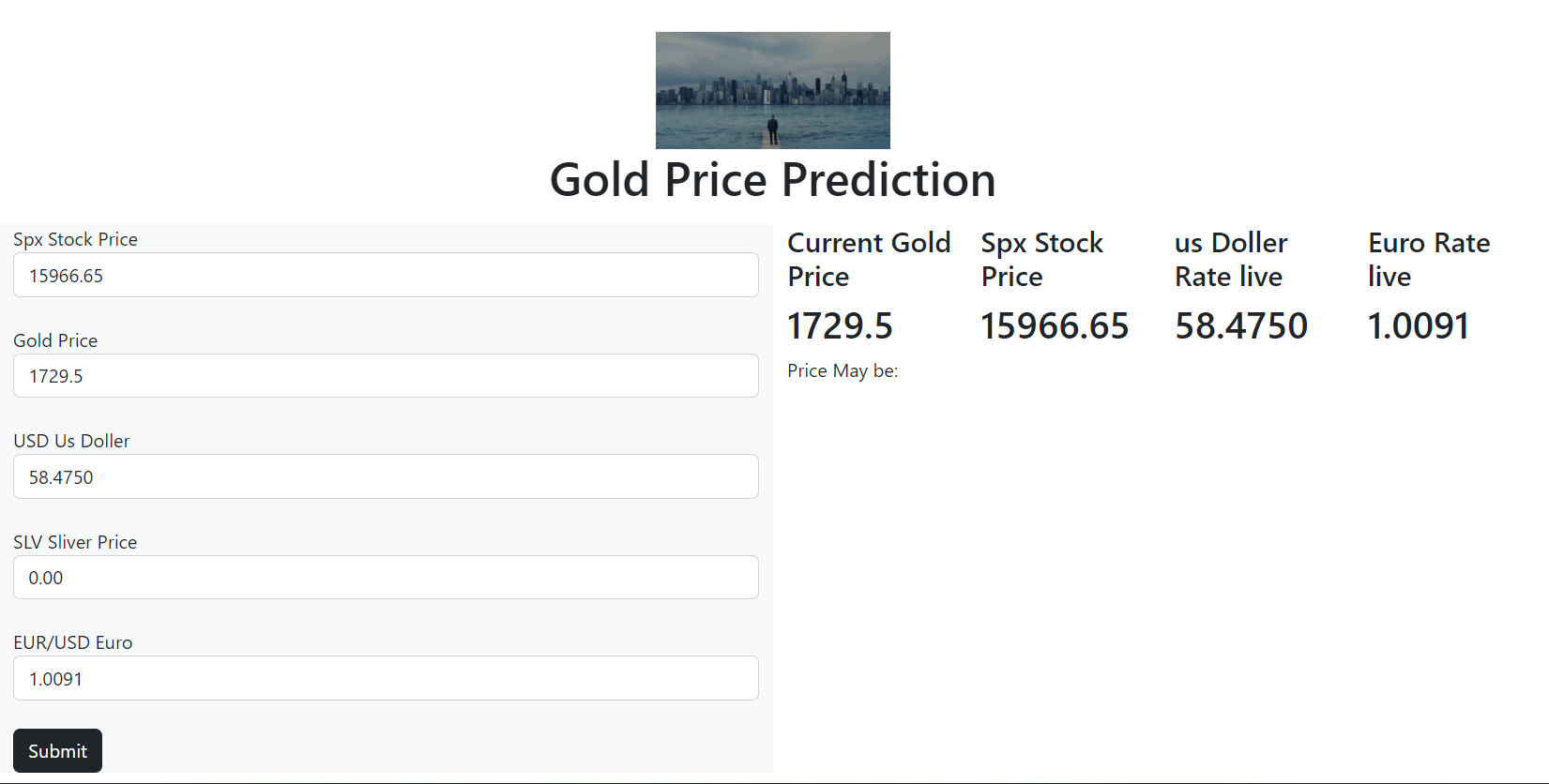


Figure 5

**Chapter 4**

**Agile Methodology**

* 1. **Introduction**

After the initial studies it is found that agile model of software development is suitable and is the best method for the development of this system. Agile methodology mainly focused on the client satisfaction through continuous delivery. Also it sets a minimum number of requirements and turns them in to a deliverable product. As this project has many individual requirements which can be delivered in parts and the user can gradually improve their work efficiency. Agile methodology has a family of methods of which scrum is selected for the development of this project. Scrum is process framework that has been used to manage com- plex product development. It is not a process or technique for building products rather it is a framework within which various processes can be employed. Also, it is suitable method to support the development process. It focuses on lean software development and has in building better software effectively and efficiently.

Agile is one of the most widely used and recognized software development frameworks. The methodology those experts agreed upon was described as ‘lightweight’ and fast. Agile is also about being the adaptive and continuous improvement, as much as it is about constant feedback and speed of delivery.

Agile is a software development approach where a self-sufficient and cross-functional team works on making continuous deliveries through iterations and evolves throughout the process

by gathering feedback from the end users.

The major rules in scrum methodology are

* + 1. **The product owner (PO)**: Who represents the stakeholder and the business.
    2. **The scrum master**: Ensures the process followed, removes obstructions, and protects the development system
    3. **Development team**: Cross functional, self-organizing team who actually do the actual analysis, design implementation and testing process.

They work together in iterative time boxed durations called sprints. The first step is the creation of the product backlog by the PO. It’s a to-do list of stuff to be done by the scrum team. Then the scrum team selects the top priority items and tries to finish them within the time box called a sprint. An easier way to remember all of this is to memorize the 3-3-5 frame- work. It means that a scrum project has 3 roles, 3 artifacts, and 5 events

##### These are: -

1. **Roles:** Product Owner, Scrum Master, and development team.
2. **Artifacts**: Product Backlog, Sprint Backlog and Product Increment.
3. **Events**: Sprint, Sprint planning, Daily Scrum, Sprint review and Sprint retrospective

The framework begins with a simple premise start with what can be seen or known. After that the progress is tracked and tweak as necessary. The three pillars of scrum are transparency, inspection and adaptation. In scrum everyone has a role.

The Git is used as the version control system for this project. Version control is a system that records changes to a file or set of files over time so that a specific version can be recalled later. Version control systems are a category of software tools that help a software team for managing changes to source code over time. Version control software keeps track of every modification to the code in a special kind of database. If a mistake is made, developers can turn back the clock and compare earlier versions of the code to help fix the mistake while minimizing disruption to all team members.

* 1. **User Story**

A user story is a tool used in agile software development to capture a description of a software feature from an end-user perspective. The user story describes the type of user, what they want and why. A user story helps to create a simplified description of a requirement.

|  |  |  |  |
| --- | --- | --- | --- |
| User  story ID | As a  *<*Type of user*>* | I want to perform  *<*some task*>* | So that I can  *<*achieve some goal*>* |
| 1 | USER | Register to the system | access the system |
| 2 | USER, admin | Login | access the account |
| 3 | USER | Add the details |  |
| 4 | USER | Add prices of gold, silver | Predict the price |

Table 4.1: User Story

* 1. **Product Backlog**

A product backlog is a list of the new features, changes to existing features, bug fixes, infrastructure changes or other activities that a team may deliver in order to achieve a specific outcome. The product backlog is the single authoritative source for things that a team works on. That means that nothing gets done that isn’t on the product backlog. Conversely, the presence of a product backlog item on a product backlog does not guarantee that it will be delivered. It represents an option the team has for delivering a specific outcome rather than a commitment.

It should be cheap and fast to add a product backlog item to the product backlog, and it should be equally as easy to remove a product backlog item that does not result in direct progress to achieving the desired outcome or enable progress toward the outcome. The Scrum Product Backlog is simply a list of all things that needs to be done within the project. It re- places the traditional requirements specification artifacts. These items can have a technical nature or can be user-centric e.g. in the form of user stories.The product backlog of the system is given in Table 4.2

|  |  |  |  |
| --- | --- | --- | --- |
| PRODUCT BACKLOG | | | |
| ID | NAME | PRIORITY | ESTIMATE[Hrs] |
| 1 | Login | 1 | 60 |
| 1 | Add datasets | 2 | 60 |
| 1 | Predictive analysis | 3 | 50 |

## Project Plan

Table 4.2: Product Backlog

A project plan that has a series of tasks laid out for the entire project, listing task durations, responsibility assignments, and dependencies. Plans are developed in this manner based on the assumption that the Project Manager, hopefully along with the team, can predict up front everything that will need to happen in the project, how long it will take, and who will be able to do it. Project plan is given in Table 4.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User story ID | Task Name | Start date | End date | Days | Status  (to be filled by Scrum Master) |
| Sprint 1 | | 15-02-2022 | 07-03-2022 | 14 | Completed |
| 1 | Registration | 15-02-2022 | 18-02-2022 | 4 | Completed |
| 1 | Coding | 21-02-2022 | 25/02/2022 | 4 | Completed |
| 1 | Testing | 2-03-2022 | 7-03-2022 | 4 | Completed |
| Sprint 2 | | 08-03-2022 | 08-04-2022 | 14 | Completed |
| 1 | Coding | 08-03-2022 | 25-03-2022 | 9 | Completed |
| 1 | Testing | 4-04-2022 | 8-04-2022 | 5 | Completed |
| Sprint 3 | | 11-04-2022 | 03-05-2022 | 14 | Completed |
| 1 | database connectivity | 11-04-2022 | 20-04-2022 | 7 | Completed |
| 1 | Configuration | 21-04-2022 | 28-04-2022 | 6 | Completed |
| Sprint 4 | | 03-05-2022 | 06-05-2022 | 5 | Completed |
| 1 | Deployment | 02-05-2022 | 05-05-2022 | 4 | Completed |
| 1 | Testing and Validation | 05-05-2022 | 06-05-2022 | 1 | Completed |

Table 4.3: Project plan

The Project has Four sprints:

##### Sprint 1

Three tasks are planned in this sprint. First one is Problem definition, next is designing and initial coding.

##### Sprint 2

Two tasks are planned in this sprint. First one is design and development of forms and next one is testing.

##### Sprint 3

Three tasks are planned in this sprint. These are database connectivity and development of web user interface using Django

##### Sprint 4

In this sprint two tasks are planned to complete; one is Deployment of web app and prediction of gold price and second is testing and result discussion.

## Sprint Backlog (Plan)

The sprint backlog is a list of tasks identified by the Scrum team to be completed during the Scrum sprint. During the sprint planning meeting, the team selects some number of product backlog items, usually in the form of user stories, and identifies the tasks necessary to complete each user story. Most teams also estimate how many hours each task will take someone on the team to complete.

##### Sprint 1:

Three tasks are planned in this sprint. First one is Problem definition , next is designing and initial coding ..Sprint backlog (planning) for sprint 1 is given in Table 4.4.

##### Sprint 2:

Two tasks are planned in this sprint. First one is design and development of forms and next one is testing. Sprint backlog (planning) for sprint 2 is given in Table 4.5

##### Sprint 3:

Three tasks are planned in this sprint. These are database connectivity and development of web user interface using Django. The sprint backlog for sprint 3 is given in Table 4.6

##### Sprint 4:

In this sprint two tasks are planned to complete one is Deployment of web app and prediction of gold price. The sprint backlog for sprint 4 is given in Table 4.7

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 15/02/22 | Day 2 16/02/22 | Day 3 17/02/22 | Day 4 18/02/22 | Day 5 21/02/22 | Day 6 22/02/22 | Day 7 23/02/22 | Day 8 24/02/22 | Day 09 25/02/22 | Day 10 02/03/22 | Day 11 03/03/22 | Day 12 04/03/22 | Day 13 07/03/22 | Day 14 08/03/22 |
|  | | | | | | | | | | | | | | | |
| User Story #1  Hours |  |  | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
|  | | | | | | | | | | | | | | | |
| Registration | 18/02/22 | 11 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Coding

25/02/22 39 0 0 0 0

0 0 7 6

6 8 7 5 0 0

Chapter 4. *Agile Methodology*

15

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Testing | 07/03/22 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 60 | 2 | 2 | 2 | 2 | 2 | 1 | 7 | 6 | 6 | 8 | 7 | 5 | 6 | 4 |

Table 4.4: Sprint Backlog (Plan) - Sprint 1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 08/03/22 | Day 2 09/03/22 | Day 3 10/03/22 | Day 4 11/03/22 | Day 5 14/03/22 | Day 6 15/03/22 | Day 7 16/03/22 | Day 8 17/03/22 | Day 09 18/03/22 | Day 10 25/03/22 | Day 11 04/04/22 | Day 12 05/04/22 | Day 13 07/04/22 | Day 14 08/04/22 |
| User Story #1 |  |  | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Coding | 25/03/22 | 55 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 5 | 0 | 0 | 0 | 0 | 0 |

Testing

08/04/22 15 0 0 0 0

0 0 0 0

0 2 3 3 4 3

Chapter 4. *Agile Methodology*

16

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 70 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 5 | 2 | 3 | 3 | 4 | 3 |

Table 4.5: Sprint Backlog (Plan) - Sprint 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Backlog item

User Story #1 db connectivity

Completion date

20/04/22

Original estimate in hours

15

Day 1 11/04/22

Hours 4

Day 2 12/05/22

Hours 2

Day 3 13/05/22

Hours 3

Day 4 14/04/22

Hours 1

Day 5 15/05/22

Hours 3

Day 6 18/04/22

Hours 2

Day 7 19/04/22

Hours 0

Day 8 20/04/22

Hours 0

Day 09 21/04/22

Hours 0

Day 10 22/04/22

Hours 0

Day 11 25/04/22

Hours 0

Day 12 28/04/22

Hours 0

Day 13 02/05/22

Hours 0

Day 14 03/05/22

Hours 0

Chapter 4. *Agile Methodology*

17

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| configuration | 28/04/22 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 4 | 2 | 4 | 5 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 50 | 4 | 2 | 3 | 1 | 3 | 2 | 6 | 5 | 4 | 2 | 4 | 5 | 6 | 4 |

Table 4.6: Sprint Backlog (Plan) - Sprint 3

Chapter 4. *Agile Methodology*

18

Table 4.7: Sprint Backlog (Plan) - Sprint 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 07/05/22 | Day 2 08/05/22 | Day 3 09/05/22 | Day 4 10/05/22 | Day 5 12/05/22 |  |
| User Story #1 |  |  | Hours | Hours | Hours | Hours | Hours |  |
| Deployment | 05/05/22 | 35 | 7 | 8 | 7 | 6 | 7 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Testing and Validation | 06/05/22 | 25 | 6 | 5 | 5 | 4 | 5 |  |
| Total |  | 60 | 13 | 13 | 12 | 10 | 12 |  |

Chapter 4. *Agile Methodology*

## Sprint Backlog (Actual)

Actual sprint backlog is what adequate sprint planning is actually done by project team there may or may not be difference in planned sprint backlog. The detailed sprint backlog (Actual) is given below.

19

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 15/02/22 | Day 2 16/02/22 | Day 3 17/02/22 | Day 4 18/02/22 | Day 5 21/02/22 | Day 6 22/02/22 | Day 7 23/02/22 | Day 8 24/02/22 | Day 09 25/02/22 | Day 10 02/03/22 | Day 11 03/03/22 | Day 12 04/03/22 | Day 13 07/03/22 | Day 14 08/03/22 |
|  | | | | | | | | | | | | | | | |
| User Story #1  Hours |  |  | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
|  | | | | | | | | | | | | | | | |
| Registration | 18/02/22 | 11 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Coding

25/02/22 39 0 0 0 0

0 0 7 6

6 8 7 5 0 0

Chapter 4. *Agile Methodology*

20

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Testing | 07/03/22 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 60 | 2 | 2 | 2 | 2 | 2 | 1 | 7 | 6 | 6 | 8 | 7 | 5 | 6 | 4 |

Table 4.8: Sprint Backlog (Plan) - Sprint 1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 08/03/22 | Day 2 09/03/22 | Day 3 10/03/22 | Day 4 11/03/22 | Day 5 14/03/22 | Day 6 15/03/22 | Day 7 16/03/22 | Day 8 17/03/22 | Day 09 18/03/22 | Day 10 25/03/22 | Day 11 04/04/22 | Day 12 05/04/22 | Day 13 07/04/22 | Day 14 08/04/22 |
| User Story #1 |  |  | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Coding | 25/03/22 | 55 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 5 | 0 | 0 | 0 | 0 | 0 |

Testing

08/04/22 15 0 0 0 0

0 0 0 0

0 2 3 3 4 3

Chapter 4. *Agile Methodology*

21

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 70 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 5 | 2 | 3 | 3 | 4 | 3 |

Table 4.9: Sprint Backlog (Plan) - Sprint 2

Backlog item

User Story #1 db connectivity

Completion date

20/04/22

Original estimate in hours

15

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Day 1 11/04/22

Hours 4

Day 2 12/05/22

Hours 2

Day 3 13/05/22

Hours 3

Day 4 14/04/22

Hours 1

Day 5 15/05/22

Hours 3

Day 6 18/04/22

Hours 2

Day 7 19/04/22

Hours 0

Day 8 20/04/22

Hours 0

Day 09 21/04/22

Hours 0

Day 10 22/04/22

Hours 0

Day 11 25/04/22

Hours 0

Day 12 28/04/22

Hours 0

Day 13 02/05/22

Hours 0

Day 14 03/05/22

Hours 0

Chapter 4. *Agile Methodology*

22

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| block chain configuration | 28/04/22 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 4 | 2 | 4 | 5 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total |  | 50 | 4 | 2 | 3 | 1 | 3 | 2 | 6 | 5 | 4 | 2 | 4 | 5 | 6 | 4 |

Table 4.10: Sprint Backlog (Plan) - Sprint 3

Chapter 4. *Agile Methodology*

23

Table 4.11: Sprint Backlog (Plan) - Sprint 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Backlog item | Completion date | Original  estimate in hours | Day 1 02/05/22 | Day 2 03/05/22 | Day 3 04/05/22 | Day 4 05/05/22 | Day 5 06/05/22 |  |
| User Story #1 |  |  | Hours | Hours | Hours | Hours | Hours |  |
| Deployment | 05/05/22 | 35 | 7 | 8 | 7 | 6 | 7 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Testing and Validation | 06/05/22 | 25 | 6 | 5 | 5 | 4 | 5 |  |
| Total |  | 60 | 13 | 13 | 12 | 10 | 12 |  |

## Product Backlog Review

#### REVIEW FORM SPRINT 1

##### Version:1.0 Date:15/02/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum master if any | Comments from Product Owner if any |
| 1 | Developer  should have a easy  registration process | User friendly  registration |
| 2 | effective login | if there is forgot pass-  word or username handled |

Table 4.12: Product Backlog Review (Sprint1)

#### SPRINT 2

##### Version:1.0 Date:29/03/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 3 | should check the data  inserted correctly | Inserted |
| 4 | Design and development of registration forms | Should customize different models |

Table 4.13: Product Backlog Review (Sprint2)

#### SPRINT 3

##### Version:1.0 Date:23/04/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 5 | should check database  connectivity | Check connection |
| 6 | block chain configuration | check connection |

Table 4.14: Product Backlog Review (Sprint3)

#### SPRINT 4

##### Version:1.0 Date:05/05/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 7 | Deployment | Visualize final  output. |
| 8 | Generate predicted result | Satisfied |

Table 4.15: Product Backlog Review (Sprint4)

## Sprint Review

At the end of each sprint a Sprint Review meeting is held. During this meeting the Scrum Team shows which Scrum Product Backlog items they completed (according to the Definition of Done) during the sprint. This might take place in the form of a demo of the new features. Backlog items that are not completed shall not be demonstrated. Otherwise, this might suggest that these items are finished as well. Instead, incomplete items/remaining activities shall be taken back into the Scrum Product Backlog, re-estimated and completed in one of the following sprints. The Sprint Review meeting should be kept very informal. No PowerPoint slides should be used and time for preparation and performing the meeting should be limited. During the meeting the Scrum Product Owner inspects the implemented backlog entries and accepts the solution or adds new stories to the Scrum Product Backlog to adapt the functionality. participants in the sprint review typically include the Scrum Product Owner, the Scrum Team and the Scrum Master. Additionally, management, customers, and developers from other projects might participate as well.

#### REVIEW FORM SPRINT 1

##### Version:1.0 Date:15/02/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments  from Scrum master if any | Comments from Product Owner if any |
| 1 | Developer  should have a easy registration process | satisfied |
| 2 | effective login | successful |

Table 4.16: Sprint Review (Sprint1)

#### SPRINT 2

##### Version:1.0 Date:29/03/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 3 | should check the data  inserted correctly | Successful |
| 4 | Design and development of registration forms | Satisfied |

Table 4.17: Sprint Review (Sprint2)

#### SPRINT 3

##### Version:1.0 Date:23/04/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 5 | should check database  connectivity | connection  successful |

Table 4.18: Sprint Review (Sprint3)

#### SPRINT 4

##### Version:1.0 Date:05/05/2022

|  |  |  |
| --- | --- | --- |
| User story ID | Comments from Scrum  master if any | Comments  from Product Owner if any |
| 6 | Deployment completed | Satisfied |
| 7 | Output generated | Satisfied with  result |

Table 4.19: Sprint Review (Sprint4)

## Testing and Validation

Sprint 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Date | Action | Expected Result | Actual Result | Pass?  *<*Yes/ N o*>* |
| 1 | 01/03/2022 | Registration | Registration successful | successful | Yes |
| 1 | 07/03/2022 | Login | Login to system | Login successful | Yes |

Table 4.20: Testing and Validation (Sprint1)

Sprint 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Date | Action | Expected Result | Actual Result | Pass?  *<*Yes/ N o*>* |
| 1 | 08/04/202 | Development of  transfer learning models | Can choose  the best models | Done | Yes |

Table 4.21: Testing and Validation (Sprint2)

Sprint 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Date | Action | Expected Result | Actual Result | Pass?  *<*Yes/ N o*>* |
| 1 | 03/05/2022 | Development of  web application | UI will be formed | Done | Yes |

Table 4.22: Testing and Validation (Sprint3)

Sprint 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Date | Action | Expected Result | Actual Result | Pass?  *<*Yes/ N o*>* |
| 1 | 06/05/2022 | Deployment | QR scan  gives correct result | Done | Yes |

Table 4.23: Testing and Validation (Sprint4)

## Git

Git is a free and open-source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. To show the continuous development of the project the Gitlab histories are shown in Appendix from figure A.12 to A.15

**Chapter 5**

**Result and Discussions**

## database

Figure 6: database

**System Design**

**DATA FLOW DIAGRAM:**

The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent

a system in terms of input data to the system, various processing carried out on this data, and the output

data is generated by this system.

1. The data flow diagram (DFD) is one of the most important modeling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system.
2. DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.
3. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.

Symbols Descriptions

Data flow process

Process

Source link

Data store

|  |
| --- |
| Input train dataset |

|  |
| --- |
| Data processing |

|  |
| --- |
| Classification |

|  |
| --- |
| Model saving |

|  |
| --- |
| Test data input |

Figure 7

**USE CASE DIAGRAM**

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted.

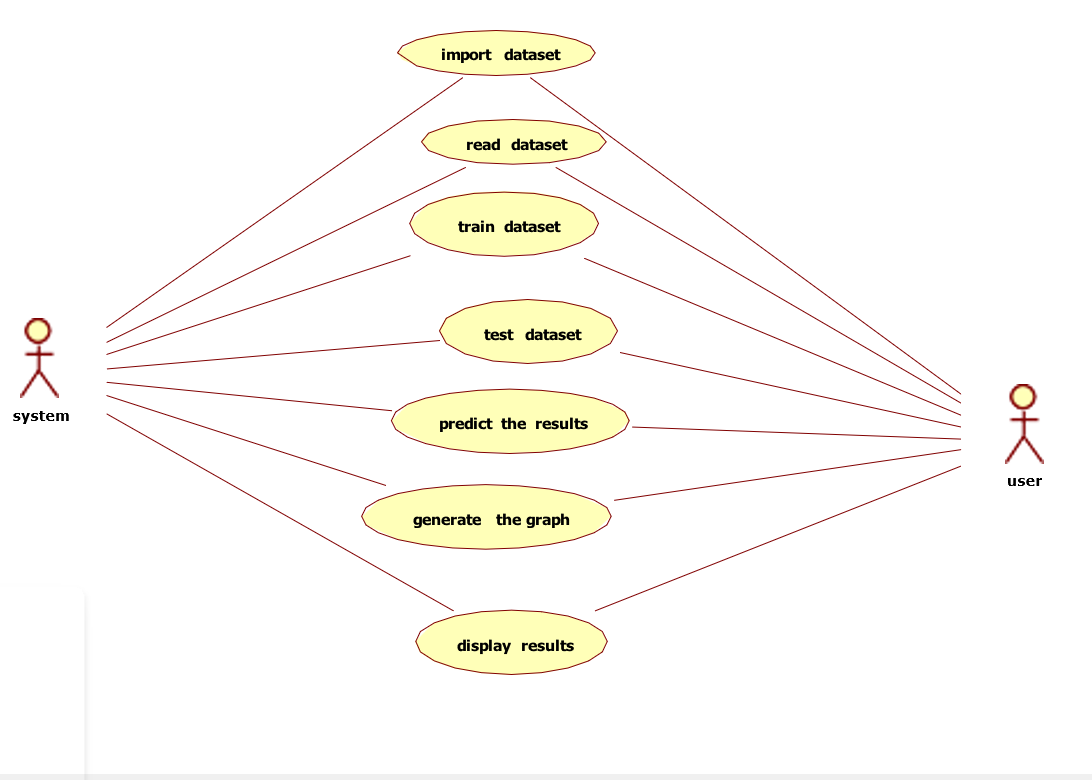


Figure 8. Use case diagram

# CLASS DIAGRAM:

In software engineering, a class diagram in the Unified Modeling Language (UML) is a type

of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among the classes. It explains which class contains information.



+generate results()

+read dataset

+train dataset

+test dataset

**system**

+Analysys results()

+upload dataset

+apply algorithm

+predict results

**user**

Figure 9. Class diagram

**SEQUENCE DIAGRAM:**

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. Sequence diagrams are sometimes called event diagrams, event scenarios, and timing diagrams.

SYSTEM

USER

Upload dataset

Read dataset

Train dataset

Test dataset

Predict results

Analysis the result

Figure 10. Sequence diagram

**ACTIVITY DIAGRAM:**

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

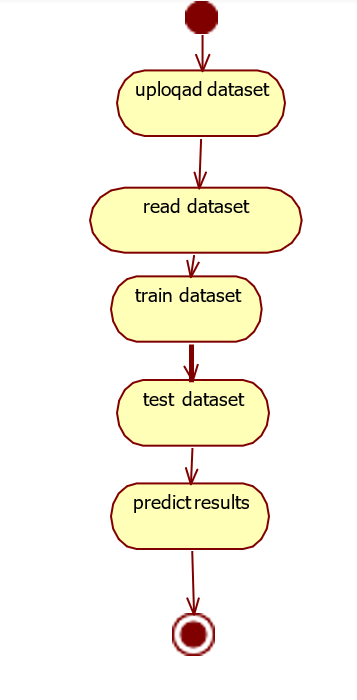
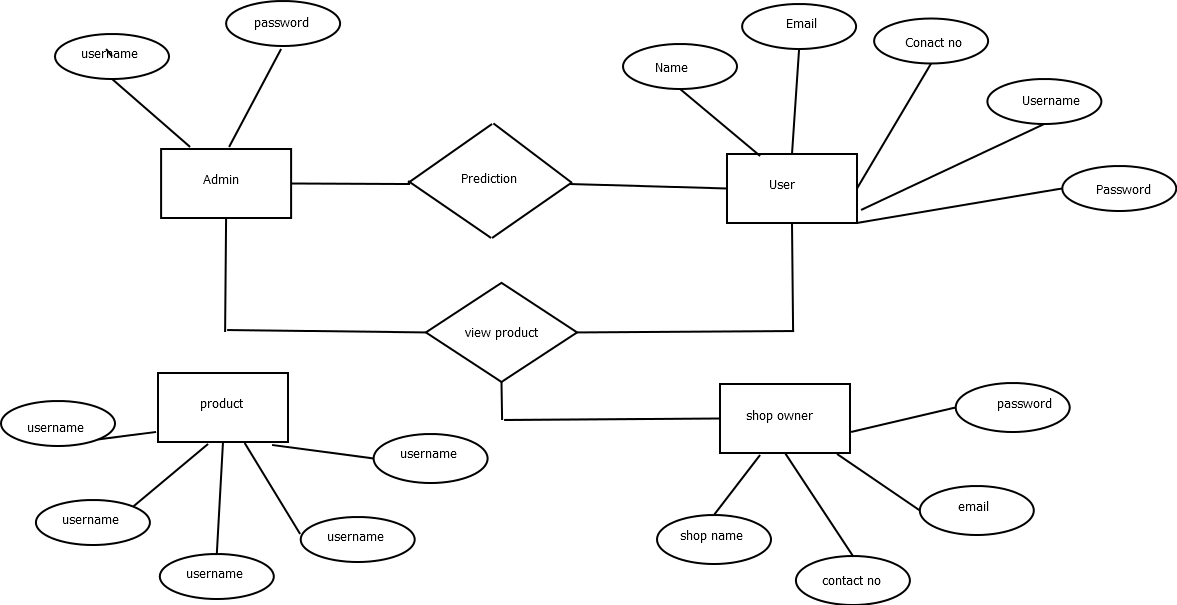


Figure 11. **ACTIVITY DIAGRAM**

**ER DIAGRAM**



**Chapter 6 Conclusion**

Gold has been one of history's most significant commodities. Maintaining central banks' gold reserves is essential to maintaining the world's existing economic system. Some big firms and investors are now spending large amounts of money in gold. While forecasting the rate of gold is not very easy, it will allow investors and central banks to determine better when to sell and buy them and thus maximize their income. Furthermore, an attempt has been made in this study by using machine learning algorithms to accurately predict the gold prices and when to sell them and purchase them. This research was done in order to clarify the gold price predictions using machine learning using Python. It is concluded that machine learning algorithms with linear regression analysis are very useful in gold price prediction

# References

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[11] Sima P. Patil, Prof. V. M. Vasava, Prof. G. M. Poddar, " Gold Market Analyzer using Selection based Algorithm", International Journal of Advanced Engineering Research and Science, 2016.

[12] S. Kumar Chandar, M. Sumathi and S. N. Sivanadam, "Forecasting Gold Prices Based on Extreme Learning Machine", International Journal of Computers Communications & Control, 2016

# Appendix

## Source Code

from pathlib import Path

import os

# Build paths inside the project like this: BASE\_DIR / 'subdir'.

BASE\_DIR = Path(\_\_file\_\_).resolve().parent.parent

INSTALLED\_APPS = [

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

    'price'

]

ROOT\_URLCONF = 'gold\_price.urls'

TEMPLATES = [

    {

        'BACKEND': 'django.template.backends.django.DjangoTemplates',

        'DIRS': [os.path.join(BASE\_DIR,'templates')],

        'APP\_DIRS': True,

        'OPTIONS': {

            'context\_processors': [

                'django.template.context\_processors.debug',

                'django.template.context\_processors.request',

                'django.contrib.auth.context\_processors.auth',

                'django.contrib.messages.context\_processors.messages',

            ],

        },

    },

]

WSGI\_APPLICATION = 'gold\_price.wsgi.application'

# Database

# https://docs.djangoproject.com/en/4.0/ref/settings/#databases

DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.sqlite3',

        'NAME': BASE\_DIR / 'db.sqlite3',

    }

}

# Password validation

# https://docs.djangoproject.com/en/4.0/ref/settings/#auth-password-validators

AUTH\_PASSWORD\_VALIDATORS = [

    {

        'NAME': 'django.contrib.auth.password\_validation.UserAttributeSimilarityValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.MinimumLengthValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.CommonPasswordValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.NumericPasswordValidator',

    },

]

# Internationalization

# https://docs.djangoproject.com/en/4.0/topics/i18n/

LANGUAGE\_CODE = 'en-us'

TIME\_ZONE = 'UTC'

USE\_I18N = True

USE\_TZ = True

# Static files (CSS, JavaScript, Images)

# https://docs.djangoproject.com/en/4.0/howto/static-files/

STATIC\_URL = 'static/'

STATICFILES\_DIRS=[

    os.path.join(BASE\_DIR,'source')

]

# Default primary key field type

# https://docs.djangoproject.com/en/4.0/ref/settings/#default-auto-field

DEFAULT\_AUTO\_FIELD = 'django.db.models.BigAutoField'

#email sending

EMAIL\_USE\_TLS = True

EMAIL\_HOST = 'smtp.gmail.com'

EMAIL\_PORT = 587

EMAIL\_HOST\_USER = 'example@gmail.com'

EMAIL\_HOST\_PASSWORD = 'password'

from django.contrib import admin

from django.urls import path,include

urlpatterns = [

    path('admin/', admin.site.urls),

    path('', include('price.urls'))

]

from django.shortcuts import render

from django.http import HttpResponse

from . models import price\_input, price\_prediction

from django.contrib.sessions.models import Session

from django.core.mail import send\_mail

from django.conf import settings

def mail(rate,eml):

    subject = "Gold Price"

    msg = " predict Gold price is greater than this shop rate " +str(rate)

    to=eml

    res=send\_mail(subject, msg,settings.EMAIL\_HOST\_USER, [to])

    if(res == 1):

        msg = "Mail Sent Successfuly"

    else:

        msg = "Mail could not sent"

    return msg

# Create your views here. https://www.goodreturns.in/silver-rates/

def shoprate():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    # page = requests.get(

    #     "https://www.bhimagold.com/gold?utm\_source=google+search+&utm\_medium=brand&utm\_campaign=indxnl&gclid=Cj0KCQjwm6KUBhC3ARIsACIwxBgW31Yohxyrb2p01\_YdGJUPiaBP6fzbZtchm6L4kKEyFa4uOE9IRNEaApd3EALw\_wcB")

    url = 'https://www.bhimagold.com/'

    headers = { 'User-Agent' :

'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.67 Safari/537.36'}

    page = requests.get(url,headers=headers)

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='gold-label-price')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        # count += 1

        # if count==1:

        price.append(items.get\_text())

        pr=items.get\_text()

        return pr

def sliver():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    page = requests.get(

        "https://www.moneycontrol.com/commodity/silver-price.html")

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='rd\_30')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        count += 1

        if count==1:

            price.append(items.get\_text())

            print(items.get\_text())

            val=items.get\_text()

            val=val.split(" ")

            break

    for p in price:

        one=p

        return p

def spx():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    page = requests.get(

        "https://www.google.com/finance/quote/.INX:INDEXSP?sa=X&ved=2ahUKEwjfk5mpyt33AhWQUGwGHRA5ALoQ3ecFegQIJxAY")

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='YMlKec')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        count += 1

        if count==1:

            price.append(items.get\_text())

            print(items.get\_text())

            val=items.get\_text()

            val=val.split(" ")

            break

    for p in price:

        one=p

    one=one.replace(',',"")

    return one

def goldprice():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    page = requests.get(

        "https://markets.businessinsider.com/commodities/gold-price")

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='price-section\_\_current-value')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        count += 1

        if count==1:

            price.append(items.get\_text())

            # print(items.get\_text())

            # val=items.get\_text()

            # val=val.split(" ")

            break

    for p in price:

        one=p

    return one

def usdoller():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    page = requests.get(

        "https://www.google.com/finance/quote/USD-RUB")

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='fxKbKc')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        count += 1

        if count==1:

            price.append(items.get\_text())

            print(items.get\_text())

            # val=items.get\_text()

            # val=val.split(" ")

            break

    for p in price:

        one=p

        return one

#euro

def euro():

    price=[]

    # Required module- pip install requests

    import requests

    # pip install Bs4

    from bs4 import BeautifulSoup

    # Passing Request

    page = requests.get(

        "https://www.google.com/finance/quote/EUR-USD")

    # Getting Content of Page

    Soup = BeautifulSoup(page.content, 'html.parser')

    # Getting info specific Class

    info = Soup.find\_all(class\_='YMlKec fxKbKc')

    count = 0

    # Getting Date Which we Required...

    for items in info:

        count += 1

        if count==1:

            price.append(items.get\_text())

            # print(items.get\_text())

            # val=items.get\_text()

            # val=val.split(" ")

            break

    for p in price:

        one=p

        return one

def gold(request):

    rate=shoprate()

    return render(request,'index.html',{'goldrate':rate})

def user\_reg(request):

    if request.method=="POST":

        nam=request.POST.get("nam")

        eml=request.POST.get("eml")

        cnum=request.POST.get("cnum")

        pword=request.POST.get("paswd")

        usernam=request.POST.get("usrnam")

        obj=price\_prediction.objects.create(nam=nam,eml=eml,cnum=cnum,password=pword,uname=usernam)

        obj.save()

        return HttpResponse("<h4> Successfully registered</h4> <a href='/'>Login </a> ")

    return render(request,'registration.html')

def home(request):

    user=request.session['username']

    passw=request.session['password']

    obj=price\_prediction.objects.filter(uname=user,password=passw)

    if obj:

        for l in obj:

            idno=l.id

            eml=l.eml

        request.session['idn']=idno

        request.session['eml']=eml

        gld=goldprice()

        sp=spx()

        slv=sliver()

        ero=euro()

        us=usdoller()

        return render(request,'home.html',{'user':obj,'gl':gld,'spx':sp,'slv':slv,'ero':ero,'us':us})

def login(request):

    if request.method=="POST":

        user=request.POST.get("user")

        passw=request.POST.get("passw")

        obj=price\_prediction.objects.filter(uname=user,password=passw)

        if obj:

            for l in obj:

                idno=l.id

                eml=l.eml

            request.session['idn']=idno

            request.session['eml']=eml

            request.session['username']=user

            request.session['password']=passw

            gld=goldprice()

            sp=spx()

            slv=sliver()

            ero=euro()

            us=usdoller()

            request.session['gld']=gld

            request.session['sp']=sp

            request.session['slv']=slv

            request.session['ero']=ero

            request.session['us']=us

            return render(request,'home.html',{'user':obj,'gl':gld,'spx':sp,'slv':slv,'ero':ero,'us':us})

        else:

            return render(request,'index.html',{'msg':'invalid username and password'})

    else:

        return render(request,'index.html')

def predict(data\_list):

    import joblib

    import numpy

    # import matplotlib.pyplot as plt

    # import pandas as pd

    # import seaborn as sms

    model2=joblib.load("model\goldprice\_md.joblib")

    prf=model2.predict([data\_list])

    print(prf[0])

    return prf[0]

def prediction(request):

     if request.method=="POST":

        spx=float(request.POST.get("spx"))

        gld=float(request.POST.get("gld"))

        usd=float(request.POST.get("usd"))

        slv=float(request.POST.get("slv"))

        eur=float(request.POST.get("eur"))

        datalist=[spx,usd,slv,eur]

        prd=predict(datalist)

        obj=price\_input.objects.create(spx=spx,gld=gld,usd=usd, slv=slv, eur=eur,predict=prd)

        obj.save()

        # return HttpResponse("<div style='width:40%; height:300px; background-color:yellow;'> <h3 style='text-algin:center;'>Gold Price Prediction:"+str(prd)+"</h3>  </div>")

        user=request.session['username']

        passw=request.session['username']

        obj=price\_prediction.objects.filter(uname=user,password=passw)

        if obj:

            for l in obj:

                idno=l.id

            request.session['idn']=idno

        gld=request.session['gld']

        sp=request.session['sp']

        slv=request.session['slv']

        ero=request.session['ero']

        us=request.session['us']

        shopr=shoprate()

        # if int(shopr)<prd

        return render(request,'home.html',{'user':obj,'gl':gld,'spx':sp,'slv':slv,'ero':ero,'us':us,'prd':prd})

     return render(request,'registration.html')

def logout(request):

    request.session['username']=" "

    request.session['passsword']=" "

    return Http Response("Lout out <br> <a href='/login'>Login again")

def gp (request):

    obj =price\_prediction.objects.all()

    return render(request,'gold\_reg.html',{'data':obj}) from django.urls

import path, include

from .import views

urlpatterns = [

    path('',views.gold),

    path('registration',views.user\_reg),

    path('gold\_reg',views.gp),

    path('login',views.login),

    path('prediction',views.prediction),

    path('home',views.home),

    path('logout',views.logout)

    ]

<!DOCTYPE html>

<html lang="en">

<head>

   <meta charset="utf-8">

   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

   <meta name="description" content="Start your development with Rubic landing page.">

   <meta name="author" content="Devcrud">

   <title>Rubic Landing page | Components</title>

   <!-- font icons -->

   <link rel="stylesheet" href="assets/vendors/themify-icons/css/themify-icons.css">

   <!-- Bootstrap + Steller  -->

   <link rel="stylesheet" href="assets/css/rubic.css">

</head>

<body>

   <!-- Page Header -->

   <header class="header header-mini">

      <div class="header-title">Components</div>

      <nav aria-label="breadcrumb">

         <ol class="breadcrumb">

            <li class="breadcrumb-item"><a href="/">Home</a></li>

            <li class="breadcrumb-item active" aria-current="page">Components</li>

         </ol>

      </nav>

   </header> <!-- End Of Page Header -->

   <!-- main content -->

   <div class="container">

      <!-- Buttons -->

      <h3 class="mt-5">Buttons</h3>

      <hr>

      <h6 class="section-secondary-title">Styles :</h6>

      <button class="btn btn-primary">Default</button>

      <button class="btn btn-outline-primary">outline</button>

      <button class="btn btn-primary rounded">Rounded</button>

      <button class="btn btn-primary rounded"><i class="ti-thumb-up pr-1"></i> With Icon</button>

      <button class="btn btn-primary circle"><i class="ti-heart"></i></button>

      <h6 class="section-secondary-title mt-5">Sizes :</h6>

      <button class="btn btn-primary btn-lg">Large</button>

      <button class="btn btn-primary ">Regular</button>

      <button class="btn btn-primary btn-sm">Small</button>

      <button class="btn btn-primary w-sm ml-3">w-sm</button>

      <button class="btn btn-primary w-md">w-md</button>

      <button class="btn btn-primary w-lg">w-lg</button>

      <h6 class="section-secondary-title mt-5">Colors :</h6>

      <button type="button" class="btn btn-primary">Primary</button>

      <button type="button" class="btn btn-secondary">Secondary</button>

      <button type="button" class="btn btn-success">Success</button>

      <button type="button" class="btn btn-danger">Danger</button>

      <button type="button" class="btn btn-warning">Warning</button>

      <button type="button" class="btn btn-info">Info</button>

      <button type="button" class="btn btn-light">Light</button>

      <button type="button" class="btn btn-dark">Dark</button>

      <h6 class="section-secondary-title mt-5">Buttons Tags :</h6>

      <button class="btn btn-primary" type="submit">Button</button>

      <input class="btn btn-primary" type="button" value="Input">

      <input class="btn btn-primary" type="submit" value="Submit">

      <input class="btn btn-primary" type="reset" value="Reset">

      <!-- devider -->

      <div class="py-5"></div>

      <!-- Inputs -->

      <h3>Inputs</h3>

      <hr>

      <div class="row mt-5">

         <div class="col-md-6">

            <h6 class="section-secondary-title">Form controls :</h6>

            <div class="form-group">

               <input type="email" class="form-control" id="exampleFormControlInput1" placeholder="Email address">

            </div>

            <div class="form-group">

               <input type="date" class="form-control" id="exampleFormControlInput1" placeholder="Date">

            </div>

            <div class="form-group">

               <input class="form-control" type="text" placeholder="Readonly input here…" readonly>

            </div>

            <div class="form-group">

               <input class="form-control" id="disabledInput" type="text" placeholder="Disabled input here..." disabled>

            </div>

            <div class="form-group">

               <select class="form-control" id="exampleFormControlSelect1">

                  <option>Example select</option>

                  <option>1</option>

                  <option>2</option>

                  <option>3</option>

                  <option>4</option>

                  <option>5</option>

               </select>

            </div>

            <div class="form-group">

               <select multiple class="form-control" id="exampleFormControlSelect2">

                  <option>Example multiple select</option>

                  <option>1</option>

                  <option>2</option>

                  <option>3</option>

                  <option>4</option>

                  <option>5</option>

               </select>

            </div>

            <div class="form-group">

               <textarea class="form-control" id="exampleFormControlTextarea1" rows="3" placeholder="Example textarea"></textarea>

            </div>

         </div>

         <div class="col-md-6">

            <h6 class="section-secondary-title">Sizes :</h6>

            <div class="form-group">

               <input class="form-control form-control-lg" type="text" placeholder=".form-control-lg">

            </div>

            <div class="form-group">

               <input class="form-control" type="text" placeholder="Default input">

            </div>

            <div class="form-group">

               <input class="form-control form-control-sm" type="text" placeholder=".form-control-sm">

            </div>

         </div>

      </div> <!-- end of inputs -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- Dropdowns -->

      <h3 class="components-section-title font-weight-normal">Dropdowns</h3>

      <hr>

      <div class="dropdown d-inline-block">

         <button class="btn btn-outline-secondary dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

         Dropdown button

         </button>

         <div class="dropdown-menu" aria-labelledby="dropdownMenuButton">

         <a class="dropdown-item" href="#">Action</a>

         <a class="dropdown-item" href="#">Another action</a>

         <a class="dropdown-item" href="#">Something else here</a>

         </div>

      </div>

      <div class="dropdown d-inline-block">

         <a class="btn btn-outline-secondary dropdown-toggle" href="#" role="button" id="dropdownMenuLink" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Dropdown link

         </a>

         <div class="dropdown-menu" aria-labelledby="dropdownMenuLink">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

         </div>

      </div>

      <div class="btn-group">

         <button type="button" class="btn btn-outline-secondary">Split</button>

         <button type="button" class="btn btn-outline-secondary dropdown-toggle dropdown-toggle-split" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

         <span class="sr-only">Toggle Dropdown</span>

         </button>

         <div class="dropdown-menu">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#">Separated link</a>

         </div>

      </div>

      <div class="btn-group">

         <button class="btn btn-outline-secondary dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Form Dropdown

         </button>

         <div class="dropdown-menu form">

            <form class="px-4 py-3">

               <div class="form-group">

                  <input type="email" class="form-control" id="exampleDropdownFormEmail1" placeholder="email@example.com">

               </div>

               <div class="form-group">

                  <input type="password" class="form-control" id="exampleDropdownFormPassword1" placeholder="Password">

               </div>

               <div class="form-check mb-3">

                  <input type="checkbox" class="form-check-input" id="dropdownCheck">

                  <label class="form-check-label" for="dropdownCheck">

                     Remember me

                  </label>

               </div>

               <button type="submit" class="btn btn-primary btn-block">Sign in</button>

            </form>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#"><small>New around here? Sign up</small></a>

            <a class="dropdown-item" href="#"><small>Forgot password?</small></a>

         </div>

      </div>

      <h6 class="section-secondary-title mt-5">Directions :</h6>

      <div class="btn-group dropup">

         <button type="button" class="btn btn-outline-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Dropup

         </button>

         <div class="dropdown-menu">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#">Separated link</a>

         </div>

      </div>

      <div class="btn-group dropright">

         <button type="button" class="btn btn-outline-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Dropup

         </button>

         <div class="dropdown-menu">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#">Separated link</a>

         </div>

      </div>

      <div class="btn-group">

         <button type="button" class="btn btn-outline-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Dropdown

         </button>

         <div class="dropdown-menu">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#">Separated link</a>

         </div>

      </div>

      <div class="btn-group dropleft">

         <button type="button" class="btn btn-outline-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

            Dropdown

         </button>

         <div class="dropdown-menu">

            <a class="dropdown-item" href="#">Action</a>

            <a class="dropdown-item" href="#">Another action</a>

            <a class="dropdown-item" href="#">Something else here</a>

            <div class="dropdown-divider"></div>

            <a class="dropdown-item" href="#">Separated link</a>

         </div>

      </div> <!-- end of Dropdowns -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- navbars -->

      <h3 class="components-section-title font-weight-normal mt-5">Navigations</h3>

      <hr>

      <nav class="navbar navbar-expand-sm navbar-dark bg-primary rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Primary Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-secondary rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Secondary Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-success rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Success Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-info rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Info Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-warning rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Warning Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-danger rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Danger Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-dark bg-dark rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Dark Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-light btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <nav class="navbar navbar-expand-sm navbar-light bg-light rounded shadow mb-3">

         <div class="container">

            <a class="navbar-brand" href="#">Dark Color</a>

            <button class="navbar-toggler ml-auto" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

               <ul class="navbar-nav ml-auto">

                  <li class="nav-item">

                     <a class="nav-link" href="#about">About Us</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#service">Our Service</a>

                  </li>

                  <li class="nav-item">

                     <a class="nav-link" href="#team">Our Team</a>

                  </li>

                  <li class="nav-item">

                     <a href="#book-table" class="ml-4 mt-1 btn btn-dark btn-sm">navbar button</a>

                  </li>

               </ul>

            </div>

         </div>

      </nav>

      <!-- End of navbars -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- progress bars -->

      <div class="row justify-content-between">

         <div class="col-md-5">

            <h3 class="components-section-title font-weight-normal mt-5">Progress Bars :</h3>

            <hr>

            <small>Default: </small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

            <small>Success:</small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar bg-success" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

            <small>Danger:</small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar bg-danger" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

            <small>Warning:</small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar bg-warning" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

            <small>Info:</small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar bg-info" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

            <small>Dark:</small>

            <div class="progress mt-2 mb-3">

               <div class="progress-bar bg-dark" role="progressbar" style="width: 90%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"><span>90%</span></div>

            </div>

         </div>

         <div class="col-md-6">

            <h3 class="components-section-title font-weight-normal mt-5">Paginations :</h3>

            <hr>

            <nav aria-label="Page navigation example">

               <ul class="pagination pagination-sm">

                  <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-left"></i></a></li>

                  <li class="page-item"><a class="page-link" href="#">1</a></li>

                  <li class="page-item"><a class="page-link" href="#">2</a></li>

                  <li class="page-item active"><a class="page-link" href="#">3</a></li>

                  <li class="page-item"><a class="page-link" href="#">4</a></li>

                  <li class="page-item"><a class="page-link" href="#">5</a></li>

                  <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-right"></i></a></li>

               </ul>

            </nav>

            <nav aria-label="Page navigation example">

               <ul class="pagination">

               <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-left"></i></a></li>

                  <li class="page-item"><a class="page-link" href="#">1</a></li>

                  <li class="page-item"><a class="page-link" href="#">2</a></li>

                  <li class="page-item active"><a class="page-link" href="#">3</a></li>

                  <li class="page-item"><a class="page-link" href="#">4</a></li>

                  <li class="page-item"><a class="page-link" href="#">5</a></li>

                  <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-right"></i></a></li>

               </ul>

            </nav>

            <nav aria-label="Page navigation example">

               <ul class="pagination pagination-lg">

                  <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-left"></i></a></li>

                  <li class="page-item"><a class="page-link" href="#">1</a></li>

                  <li class="page-item"><a class="page-link" href="#">2</a></li>

                  <li class="page-item active"><a class="page-link" href="#">3</a></li>

                  <li class="page-item"><a class="page-link" href="#">4</a></li>

                  <li class="page-item"><a class="page-link" href="#">5</a></li>

                  <li class="page-item"><a class="page-link" href="#"><i class="ti-angle-double-right"></i></a></li>

               </ul>

            </nav>

            <!-- Badges -->

            <h3 class="components-section-title font-weight-normal mt-5">Badges :</h3>

            <hr>

            <span class="badge badge-primary">Primary</span>

            <span class="badge badge-secondary">Secondary</span>

            <span class="badge badge-success">Success</span>

            <span class="badge badge-danger">Danger</span>

            <span class="badge badge-warning">Warning</span>

            <span class="badge badge-info">Info</span>

            <span class="badge badge-light">Light</span>

            <span class="badge badge-dark">Dark</span>

            <h6 class="section-secondary-title mt-4 mb-2">Badge Pills :</h6>

            <span class="badge badge-pill badge-primary">Primary</span>

            <span class="badge badge-pill badge-secondary">Secondary</span>

            <span class="badge badge-pill badge-success">Success</span>

            <span class="badge badge-pill badge-danger">Danger</span>

            <span class="badge badge-pill badge-warning">Warning</span>

            <span class="badge badge-pill badge-info">Info</span>

            <span class="badge badge-pill badge-light">Light</span>

            <span class="badge badge-pill badge-dark">Dark</span>

         </div>

      </div> <!-- End of Progress bars -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- Alerts -->

      <h3 class="components-section-title font-weight-normal mt-5">Alerts :</h3>

      <hr>

      <div class="alert alert-primary alert-dismissible fade show" role="alert">

         A simple primary alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-secondary alert-dismissible fade show" role="alert">

         A simple secondary alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-success alert-dismissible fade show" role="alert">

         A simple success alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-danger alert-dismissible fade show" role="alert">

         A simple danger alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-warning alert-dismissible fade show" role="alert">

         A simple warning alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-info alert-dismissible fade show" role="alert">

         A simple info alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <div class="alert alert-dark alert-dismissible fade show" role="alert">

         A simple dark alert—check it out!

         <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">&times;</span>

         </button>

      </div>

      <!-- end of alerts -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- tables -->

      <h3 class="components-section-title">Tables</h3>

      <hr>

      <table class="table">

         <thead>

            <tr>

               <th scope="col">#</th>

               <th scope="col">First</th>

               <th scope="col">Last</th>

               <th scope="col">Handle</th>

            </tr>

         </thead>

         <tbody>

            <tr>

               <th scope="row">1</th>

               <td>Mark</td>

               <td>Otto</td>

               <td>@mdo</td>

            </tr>

            <tr>

               <th scope="row">2</th>

               <td>Jacob</td>

               <td>Thornton</td>

               <td>@fat</td>

            </tr>

            <tr>

               <th scope="row">3</th>

               <td>Larry</td>

               <td>the Bird</td>

               <td>@twitter</td>

            </tr>

         </tbody>

      </table>

      <h6 class="section-secondary-title mt-5">Striped rows :</h6>

      <table class="table table-striped">

         <thead>

            <tr>

               <th scope="col">#</th>

               <th scope="col">First</th>

               <th scope="col">Last</th>

               <th scope="col">Handle</th>

            </tr>

         </thead>

         <tbody>

            <tr>

               <th scope="row">1</th>

               <td>Mark</td>

               <td>Otto</td>

               <td>@mdo</td>

            </tr>

            <tr>

               <th scope="row">2</th>

               <td>Jacob</td>

               <td>Thornton</td>

               <td>@fat</td>

            </tr>

            <tr>

               <th scope="row">3</th>

               <td>Larry</td>

               <td>the Bird</td>

               <td>@twitter</td>

            </tr>

         </tbody>

      </table>

      <h6 class="section-secondary-title mt-5">Bordred :</h6>

      <table class="table table-bordered">

         <thead>

            <tr>

               <th scope="col">#</th>

               <th scope="col">First</th>

               <th scope="col">Last</th>

               <th scope="col">Handle</th>

            </tr>

         </thead>

         <tbody>

            <tr>

               <th scope="row">1</th>

               <td>Mark</td>

               <td>Otto</td>

               <td>@mdo</td>

            </tr>

            <tr>

               <th scope="row">2</th>

               <td>Jacob</td>

               <td>Thornton</td>

               <td>@fat</td>

            </tr>

            <tr>

               <th scope="row">3</th>

               <td colspan="2">Larry the Bird</td>

               <td>@twitter</td>

            </tr>

         </tbody>

      </table>

      <!-- end of tables -->

      <!-- devider -->

      <div class="py-5"></div>

      <!-- typography -->

      <h3 class="components-section-title">Typography</h3>

      <hr>

      <table class="table table-borderless v-align-center">

         <tbody>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h1&gt;&lt;/h1&gt; || .h1</code></p>

               </td>

               <td class="w-75"><span class="h1">h1. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h2&gt;&lt;/h2&gt; || .h2</code></p>

               </td>

               <td><span class="h2">h2. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h3&gt;&lt;/h3&gt; || .h3</code></p>

               </td>

               <td><span class="h3">h3. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h4&gt;&lt;/h4&gt; || .h4</code></p>

               </td>

               <td><span class="h4">h4. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h5&gt;&lt;/h5&gt; || .h5</code></p>

               </td>

               <td><span class="h5">h5. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p><code class="highlighter-rouge">&lt;h6&gt;&lt;/h6&gt; || .h6</code></p>

               </td>

               <td><span class="h6">h6. Bootstrap heading</span></td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Paragraph :</p>

               </td>

               <td><p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Fugiat explicabo ab sed voluptas odit hic obcaecati qui omnis.</p></td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">BlockQuote :</p>

               </td>

               <td>

                  <blockquote class="blockquote">

                     <p class="mb-0">Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuere erat a ante.</p>

                     <footer class="blockquote-footer">Someone famous in <cite title="Source Title">Source Title</cite></footer>

                  </blockquote>

               </td>

            </tr>

            <tr>

               <td><p class="font-weight-bold text-muted">Ordred List :</p></td>

               <td>

                  <ol>

                     <li>Integer molestie lorem at massa</li>

                     <li>Facilisis in pretium nisl aliquet</li>

                     <li>Nulla volutpat aliquam velit

                        <ul>

                           <li>Phasellus iaculis neque</li>

                           <li>Vestibulum laoreet porttitor sem</li>

                           <li>Ac tristique libero volutpat at</li>

                        </ul>

                     </li>

                     <li>Faucibus porta lacus fringilla vel</li>

                     <li>Eget porttitor lorem</li>

                  </ol>

               </td>

            </tr>

            <tr>

               <td><p class="font-weight-bold text-muted">Unordred List :</p></td>

               <td>

                  <ul >

                     <li>Integer molestie lorem at massa</li>

                     <li>Facilisis in pretium nisl aliquet</li>

                     <li>Nulla volutpat aliquam velit

                        <ul>

                           <li>Phasellus iaculis neque</li>

                           <li>Vestibulum laoreet porttitor sem</li>

                           <li>Ac tristique libero volutpat at</li>

                        </ul>

                     </li>

                     <li>Faucibus porta lacus fringilla vel</li>

                     <li>Eget porttitor lorem</li>

                  </ul>

               </td>

            </tr>

            <tr>

               <td><p class="font-weight-bold text-muted">Unstyled List :</p></td>

               <td>

                  <ul class="list-unstyled">

                     <li>Integer molestie lorem at massa</li>

                     <li>Facilisis in pretium nisl aliquet</li>

                     <li>Nulla volutpat aliquam velit

                        <ul>

                           <li>Phasellus iaculis neque</li>

                           <li>Vestibulum laoreet porttitor sem</li>

                           <li>Ac tristique libero volutpat at</li>

                        </ul>

                     </li>

                     <li>Faucibus porta lacus fringilla vel</li>

                     <li>Eget porttitor lorem</li>

                  </ul>

               </td>

            </tr>

            <tr>

               <td class="font-weight-bold text-muted">Description lists : </td>

               <td>

                  <dl class="row">

                     <dt class="col-sm-3">Euismod</dt>

                     <dd class="col-sm-9">

                        <p>Vestibulum id ligula porta felis euismod semper eget lacinia odio.</p>

                     </dd>

                     <dt class="col-sm-3">Malesuada porta</dt>

                     <dd class="col-sm-9">Etiam porta sem malesuada magna mollis euismod.</dd>

                     <dt class="col-sm-3 text-truncate">Truncated term is truncated</dt>

                     <dd class="col-sm-9">Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.</dd>

                     <dt class="col-sm-3">Nesting</dt>

                     <dd class="col-sm-9">

                        <dl class="row">

                           <dt class="col-sm-4">Nested definition list</dt>

                           <dd class="col-sm-8">Aenean posuere, tortor sed cursus feugiat, nunc augue blandit nunc.</dd>

                        </dl>

                     </dd>

                  </dl>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Muted Text :</p>

               </td>

               <td>

                  <p class="text-muted">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Primary Text :</p>

               </td>

               <td>

                  <p class="text-primary">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Danger Text :</p>

               </td>

               <td>

                  <p class="text-danger">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Warning Text :</p>

               </td>

               <td>

                  <p class="text-warning">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Success Text :</p>

               </td>

               <td>

                  <p class="text-success">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

            <tr>

               <td>

                  <p class="font-weight-bold text-muted">Info Text :</p>

               </td>

               <td>

                  <p class="text-info">Lorem ipsum dolor sit amet, consectetur adipisicing elit. In, nulla, reprehenderit! Beatae, dolor harum fugiat.</p>

               </td>

            </tr>

         </tbody>

      </table>

   </div>

   <!-- end of typography -->

   <!-- Page Footer -->

    <footer class="footer py-4 bg-light">

        <div class="container text-center">

            <p class="mb-4 small">Copyright <script>document.write(new Date().getFullYear())</script> &copy; <a href="http://www.devcrud.com">DevCRUD</a></p>

            <div class="social-links">

                <a href="javascript:void(0)" class="text-dark"><i class="ti-facebook"></i></a>

                <a href="javascript:void(0)" class="text-dark"><i class="ti-twitter-alt"></i></a>

                <a href="javascript:void(0)" class="text-dark"><i class="ti-google"></i></a>

                <a href="javascript:void(0)" class="text-dark"><i class="ti-pinterest-alt"></i></a>

                <a href="javascript:void(0)" class="text-dark"><i class="ti-instagram"></i></a>

                <a href="javascript:void(0)" class="text-dark"><i class="ti-rss"></i></a>

            </div>

        </div>

    </footer>

    <!-- End of page footer -->

   <!-- core  -->

   <script src="assets/vendors/jquery/jquery-3.4.1.js"></script>

   <script src="assets/vendors/bootstrap/bootstrap.bundle.js"></script>

    <!-- steller js -->

    <script src="assets/js/rubic.js"></script>

</body>

</html>

{% extends 'index.html' %}

{% load static %}

{% block content %}

<section class="section">

<h1 class="text-center"> user List </h1>

<table class="table table-striped table-success">

  <tr>

      <th>Name</th>  <th>Email</th> <th>Password</th> <th>contact number</th> <th>user name</th>

  </tr>

  {% for ls in data %}

<tr>

 <td> {{ls.nam}}</td>

 <td> {{ls.eml}}</td>

 <td> {{ls.dep}}</td>

</tr>

  {% endfor %}

</section>

  {% endblock %}

{% load static %}

<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Gold Price</title>

    <script src="{% static 'myjquerynew.js' %}"></script>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

  </head>

  <body>

  <div class="container">

   <nav class="navbar navbar-expand-lg bg-light">

      <div class="container-fluid">

        <a class="navbar-brand" href="#">Gold Price</a>

        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

          <span class="navbar-toggler-icon"></span>

        </button>

        <div class="collapse navbar-collapse" id="navbarNav">

          <ul class="navbar-nav">

            <li class="nav-item">

              <a class="nav-link active" aria-current="page" href="/home">Home</a>

            </li>

            <li class="nav-item">

              <a class="nav-link" href="/https://www.moneycontrol.com/stocks/marketstats/index.php" target="\_blank">MarketPrice</a>

            </li>

            <li class="nav-item">

              <a class="nav-link" href="#gldPrice">Pricing</a>

            </li>

            <li class="nav-item">

               <a class="nav-link" href="/logout">Logout</a>

             </li>

          </ul>

        </div>

      </div>

    </nav>

     <div class="row">

        <div class="col-lg-12" align="center">

           <br>

           <br>

           <img src="{% static 'assets/imgs/bg-img.jpg' %}" style="width:200px; height:100px;">

           <h1 class="text-center">Gold Price Prediction</h1>

           <p>

           </p>

        </div>

     </div>

     <div class="row">

        <div class="col-lg-6 bg-light" style="border-right:1px solid sliver;">

         <form  method="post" action="/prediction">

            {% csrf\_token %}

         <div>

            <label for="sp">Spx Stock Price</label>

            <input type="text" class="form-control" name="spx"  value="{{spx}}" placeholder="" id="sp" required>

         </div>

         <br>

         <div>

            <label for="gl">Gold Price</label>

            <input type="text" class="form-control"  name="gld" placeholder="" id="gl" value="{{gl}}" required>

         </div>

         <br>

         <div>

            <label for="us">USD Us Doller</label>

            <input type="text" class="form-control" class="form-control" value="{{us}}" name="usd" placeholder="" id="us" required>

         </div>

         <br>

         <div>

            <label for="sl">SLV Sliver Price</label>

            <input type="text"  value="{{slv}}" class="form-control" name="slv" placeholder="" id="sl" required>

         </div>

         <br>

         <div>

            <label for="eu">EUR/USD Euro</label>

            <input type="text" value="{{ero}}" class="form-control"  name="eur" placeholder="" id="eu" required>

         </div>

         <br>

         <div>

           <button type="submit"  class="btn btn-dark">Submit</button>

         </div>

        </form>

        </div>

        <div class="col-lg-6">

           <div class="row">

              <div class="col-lg-3">

               <h4>Current Gold Price</h4>

               <h2>{{gl}}</h2>

              </div>

              <div class="col-lg-3">

               <h4>Spx Stock Price</h4>

               <h2>{{spx}}</h2>

              </div>

              <div class="col-lg-3">

               <h4>us Doller Rate live</h4>

               <h2>{{us}}</h2>

              </div>

              <div class="col-lg-3">

               <h4>Euro Rate live</h4>

               <h2>{{ero}}</h2>

              </div>

           </div>

           <div class="row">

              <div class="col-lg-12">

                 Price May be:

                 {{prd}}

              </div>

           </div>

        </div>

     </div>

  </div>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

</body>

</html>

{% load static %}

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <meta name="description" content="Start your development with Rubic landing page.">

    <meta name="author" content="Devcrud">

    <title>GOLD PRICE</title>

    <!-- font icons -->

    <link rel="stylesheet" href="{% static 'assets/vendors/themify-icons/css/themify-icons.css' %}">

    <!-- Bootstrap + Rubic main styles -->

    <link rel="stylesheet" href="{% static 'assets/css/rubic.css' %}">

</head>

<body data-spy="scroll" data-target=".navbar" data-offset="40" id="home">

    <nav id="scrollspy" class="navbar page-navbar navbar-dark navbar-expand-md fixed-top" data-spy="affix" data-offset-top="20">

        <div class="container">

            <a class="navbar-brand" href="#"><strong class="text-primary">GOLD PRICE</strong><span class="text-light"></span></a>

            <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

                <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

                <ul class="navbar-nav ml-auto">

                    <li class="nav-item">

                        <a class="nav-link" href="/">Home</a>

                    </li>

                    <li class="nav-item">

                        <a class="nav-link" href="#about">About</a>

                    </li>

                    <!-- <li class="nav-item">

                        <a class="nav-link" href="#pricing">Pricing</a>

                    </li> -->

                    <li class="nav-item">

                        <a class="nav-link" href="/registration">Register</a>

                    </li>

                    <!-- <li class="nav-item">

                        <a class="nav-link" href="#contact">Contact</a>

                    </li> -->

                    <!-- <li class="nav-item">

                        <a class="nav-link btn btn-primary text-dark shadow-none ml-md-4" href="{% static 'components.html' %}">Components</a>

                    </li> -->

                </ul>

            </div>

        </div>

    </nav>

    <header class="header d-flex justify-content-center">

        <div class="container">

            <div class="row">

                <div class="col-lg-12">

                    {{goldrate}}

                </div>

            </div>

            <div class="row h-100 align-items-center">

                <div class="col-md-7">

                    <div class="header-content">

                        <h3 class="header-title"><strong class="text-primary">PRICE PREDICTION</strong><span>BIC</span></h3>

                        <h4 class="header-subtitle">Know more about today's gold price  </h4>

                        <p> You can use gold forecasts to better allocate funds in your portfolio.</p>

                        <!-- <button class="btn btn-outline-light btn-flat">Download</button> -->

                    </div>

                </div>

                <div class="col-md-5 d-none d-md-block">

                    <form method="post" action="/login" class="header-form">

                        {% csrf\_token %}

                        <div class="head"><span class="text-primary">Login here!</div>

                        <div class="body">

                        <h4 class="text-danger">{{msg}}</h4>

                            <div class="form-group">

                                <input type="text" class="form-control" name="user" placeholder="User name">

                            </div>

                            <div class="form-group">

                                <input type="password" class="form-control" name="passw" placeholder="Password\*">

                            </div>

                        </div>

                        <div class="footer">

                            <button type="submit" class="btn btn-primary btn-block">Login</button>

                        </div>

                    </form>

                </div>

            </div>

        </div>

    </header>

    <div class="social-wrapper" id="features">

        <div class="container">

            <div class="social-txt">

                <h6 class="title">Social Media</h6>

                <p class="subtitle">Gold has great importance in stock market and influence the financial status of country</p>

            </div>

            <div class="social-links">

                <a href="{% static 'javascript:void(0' %})" class="link"><i class="ti-facebook"></i></a>

                <a href="{% static 'javascript:void(0)' %}" class="link"><i class="ti-twitter-alt"></i></a>

                <a href="{% static 'javascript:void(0)' %}" class="link"><i class="ti-google"></i></a>

                <a href="{% static 'javascript:void(0)' %}" class="link"><i class="ti-pinterest-alt"></i></a>

                <a href="{% static 'javascript:void(0)' % }" class="link"><i class="ti-instagram"></i></a>

                <a href="{% static 'javascript:void(0)' %}" class="link"><i class="ti-rss"></i></a>

            </div>

        </div>

    </div>

    <section class="section">

        <div class="container">

            <div class="row justify-content-around">

                <div class="col-lg-8">

                    <div class="tabs-container">

                        <ul class="nav tab-nav" id="pills-tab">

                            <li class="item">

                                <a class="link active" id="pills-home-tab" data-toggle="pill" href="{% static '#pills-home'% }"aria-selected="true">Tab 1</a>

                            </li>

                            <li class="item">

                                <a class="link" id="pills-profile-tab" data-toggle="pill" href="{% static '#pills-profile' %}"aria-selected="false">Tab 2</a>

                            </li>

                            <li class="item">

                                <a class="link" id="pills-contact-tab" data-toggle="pill" href="{% static '#pills-contact' "aria-selected="false">Tab 3</a>

                            </li>

                        </ul>

                        <div class="tab-content">

                            <div class="tab-pane fade show active" id="pills-home">

                                <h4 class="title">Some Title</h4>

                                <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Laboriosam repellendus esse consectetur possimus voluptatem veniam quas ducimus ullam deleniti? Possimus, unde eveniet suscipit perspiciatis dicta numquam voluptate fuga id, optio.</p>

                                <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Sit tempore molestiae excepturi commodi ullam provident, optio dicta, nulla officiis consectetur soluta et officia neque odio blanditiis aspernatur cum cumque error?</p>

                                <button class="btn btn-primary mt-3">Download</button>

                            </div>

                            <div class="tab-pane fade" id="pills-profile">

                                <h4 class="title">Another Title</h4>

                                <p>  One of the advantages of investing in gold is that there are so many financing facilities available. And we can use it quickly, if at any time we need it. If we have deposited in the form of gold, we don’t need to immediately sell the gold we have to cover these needs. We just need to get a fast loan by pawning the gold.</p>

                                <p><strong>Lorem ipsum dolor sit amet, consectetur adipisicing.</strong></p>

                                <p>You are in the right place. We will be sharing the top Gold price prediction and forecasts. We are taking a look at this asset to find out what the experts have to say about its future performance and how much it will be worth in the future. </p>

                            </div>

                            <div class="tab-pane fade" id="pills-contact">

                                <h4 class="title">Some Other </h4>

                                <p>Consectetur amet architecto, temporibus, debitis impedit dolore eius. Enim alias beatae architecto iusto incidunt pariatur reprehenderit impedit ipsum ex at deserunt, inventore corrupti rerum eius obcaecati. Itaque repellendus illum aut beatae ex quasi doloremque voluptatem. Numquam at possimus, obcaecati, voluptas aut vel nam recusandae pariatur error illum quaerat sunt! Ipsam rerum enim hic atque nemo debitis, voluptate obcaecati inventore culpa. Odit adipisci eos natus fugiat. Id, deserunt qui aliquam? Provident tempora repellat, repellendus consequatur quia dolor at dolore temporibus esse in rem ea necessitatibus quo nesciunt eos a dolorum voluptates, tenetur non eius quasi! Autem provident amet, maiores tenetur, eveniet dicta, laborum odio velit sint consequatur beatae nemo at! Aperiam magnam eveniet rerum, optio consequuntur quas maiores ullam necessitatibus nesciunt.</p>

                            </div>

                        </div>

                    </div>

                </div>

                <div class="col-lg-4 d-none d-lg-block align-self-center">

                    <img src="assets/imgs/eiffel-tower.svg" alt="" class="w-100 tower">

                </div>

            </div>

        </div>

    </section>

    <section class="section">

        <div class="container">

            <div class="row justify-content-between">

                <div class="col-md-5 align-self-center mb-4 mb-md-0">

                    <img src="assets/imgs/img.jpg" alt="" class="shadow w-100">

                </div>

                <div class="col-md-6 col-lg-5">

                    <h6 class="title">Section with Media list</h6>

                    <p>Consectetur adipisicing elit. Quam odit odio et neque perferendis perspiciatis magnam hic ut facilis possimus!consectetur adipisicing elit. Impedit repellat ipsam quaerat error odit commodi.</p>

                    <ul class="list-unstyled mt-4">

                        <li class="media">

                            <div class="circle-40 mr-3 mt-1"><i class="ti-gift"></i></div>

                            <div class="media-body">

                                <h6 class="mb-2">List-based media object</h6>

                                <p>gold price prediction</p>

                            </div>

                        </li>

                        <li class="media">

                            <div class="circle-40 mr-3 mt-1"><i class="ti-face-smile"></i></div>

                            <div class="media-body">

                                <h6 class="mb-2">Another one</h6>

                                <p>Cras in gravida nulla. Nulla vel metus scelerisque ante sollicitudin.</p>

                            </div>

                        </li>

                        <li class="media">

                            <div class="circle-40 mr-3 mt-1"><i class="ti-microphone"></i></div>

                            <div class="media-body">

                                <h6 class="mb-2">One more</h6>

                                <p>Nulla vel metus scelerisque ante sollicitudin. Cras purus odio.</p>

                            </div>

                        </li>

                    </ul>

                </div>

            </div>

        </div>

    </section>

    <section class="section">

        <div class="container">

            <div class="row justify-content-between">

                <div class="col-md-6 col-lg-5 align-self-center">

                    <h6 class="title">Standard Picture Section</h6>

                    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Distinctio ut voluptatum ipsum. Rerum fuga cumque illo nihil nobis vero ducimus, animi voluptatum nemo facilis quae quia odit accusantium doloremque? Totam.</p>

                    <p><strong>Adipisicing elit. Quos ad doloribus numquam cum odio dolorem!</strong></p>

                    <p>Rerum fuga cumque consectetur adipisicing elit. Pariatur quis ipsum facere officiis magni ullam quasi fuga magnam dicta quas.</p>

                </div>

                <div class="col-md-5 mt-4 mt-md-0">

                    <img src="assets/imgs/img1.jpg" alt="" class="shadow w-100">

                </div>

            </div>

        </div>

    </section>

    <section class="section" id="about">

        <div class="container text-center">

            <h6 class="display-4 has-line">WHY THIS IS AWESOME</h6>

            <p class="mb-5 pb-4">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>

            <div class="row">

                <div class="col-lg-4">

                    <div class="circle-100 mb-3"><i class="ti-light-bulb"></i></div>

                    <h6 class="title mb-3">Thoughtful Design</h6>

                    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptas eveniet laborum, vero doloremque sunt tempora.</p>

                </div>

                <div class="col-lg-4">

                    <div class="circle-100 mb-3"><i class="ti-paint-bucket"></i></div>

                    <h6 class="title mb-3">WELL CRAFTED</h6>

                    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptas eveniet laborum, vero doloremque sunt tempora.</p>

                </div>

                <div class="col-lg-4">

                    <div class="circle-100 mb-3"><i class="ti-marker-alt"></i></div>

                    <h6 class="title mb-3">EASY TO CUSTOMIZE</h6>

                    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptas eveniet laborum, vero doloremque sunt tempora.</p>

                </div>

            </div>

        </div>

    </section>

    <section class="section" id="pricing">

        <div class="container text-center">

            <h6 class="display-4 has-line">PRICING OPTIONS</h6>

            <p class="mb-5 pb-4">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>

            <div class="row pt-5">

                <div class="col-lg-4">

                    <a href="javascript:void(0)" class="pricing-card">

                        <div class="head">Basib</div>

                        <div class="body">

                            <h1><small>$</small>0</h1>

                            <p>Free for Life</p>

                        </div>

                        <ul class="list-group">

                            <li class="list-group-item">1 GB OF SPACE</li>

                            <li class="list-group-item">10 GB OF BANDWIDTH</li>

                            <li class="list-group-item">3 WEBSITES</li>

                            <li class="list-group-item">BASIC CUSTOMIZATION</li>

                            <li class="list-group-item">WORDPRESS INTEGRATION</li>

                            <li class="list-group-item">EMAIL SUPPORT</li>

                        </ul>

                    </a>

                </div>

                <div class="col-lg-4">

                    <a href="javascript:void(0)" class="pricing-card popular">

                        <div class="head">Professional</div>

                        <div class="body">

                            <h1><small>$</small>14.99</h1>

                            <p>Monthly Payment</p>

                        </div>

                        <div class="popular-item">OUR MOST POPULAR</div>

                        <ul class="list-group">

                            <li class="list-group-item">5 GB OF SPACE</li>

                            <li class="list-group-item">50 GB OF BANDWIDTH</li>

                            <li class="list-group-item">10 WEBSITES</li>

                            <li class="list-group-item">ADVANCED CUSTOMIZATION</li>

                            <li class="list-group-item">WORDPRESS INTEGRATION</li>

                            <li class="list-group-item">EMAIL SUPPORT</li>

                        </ul>

                    </a>

                </div>

                <div class="col-lg-4">

                    <a href="javascript:void(0)" class="pricing-card">

                        <div class="head">Enterprise</div>

                        <div class="body">

                            <h1><small>$</small>99</h1>

                            <p>Monthly Payment</p>

                        </div>

                        <ul class="list-group">

                            <li class="list-group-item">UNLIMITED OF SPACE</li>

                            <li class="list-group-item">UNLIMITED BANDWIDTH</li>

                            <li class="list-group-item">120 WEBSITES</li>

                            <li class="list-group-item">ADVANCED CUSTOMIZATION</li>

                            <li class="list-group-item">WORDPRESS INTEGRATION</li>

                            <li class="list-group-item">EMAIL SUPPORT</li>

                        </ul>

                    </a>

                </div>

            </div>

        </div>

    </section>

    <section class="section" id="review">

        <div class="container text-center">

            <h6 class="display-4 has-line">WHAT OUR CUSTOMERS ARE SAYING</h6>

            <p class="mb-5 pb-4">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>

            <div class="row text-left">

                <div class="col-md-4">

                    <div class="testmonial">

                        <p class="description"><i>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Excepturi, eaque, repellat. Corporis facilis reprehenderit, cupiditate.</i></p>

                        <div class="media">

                            <img class="mr-3" src="assets/imgs/avatar1.jpg" width="60" alt="Generic placeholder image">

                            <div class="media-body">

                                <h6 class="title">Emma Re</h6>

                                <p class="text-muted">Web Designer</p>

                            </div>

                        </div>

                    </div>

                </div>

                <div class="col-md-4">

                    <div class="testmonial">

                        <p class="description"><i>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Excepturi, eaque, repellat. Corporis facilis reprehenderit, cupiditate.</i></p>

                        <div class="media">

                            <img class="mr-3" src="assets/imgs/avatar2.jpg" width="60" alt="Generic placeholder image">

                            <div class="media-body">

                                <h6 class="title">John Doe</h6>

                                <p class="text-muted">Freelancer</p>

                            </div>

                        </div>

                    </div>

                </div>

                <div class="col-md-4">

                    <div class="testmonial">

                        <p class="description"><i>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Excepturi, eaque, repellat. Corporis facilis reprehenderit, cupiditate.</i></p>

                        <div class="media">

                            <img class="mr-3" src="assets/imgs/avatar3.jpg" width="60" alt="Generic placeholder image">

                            <div class="media-body">

                                <h6 class="title">Emily Roe</h6>

                                <p class="text-muted">Graphic Designer</p>

                            </div>

                        </div>

                    </div>

                </div>

            </div>

        </div>

    </section>

    <section class="section has-img-bg text-center">

        <div class="container">

            <h6 class="display-3 has-line">STYLISH AXURE DESIGN</h6>

            <h5 class="mb-5 font-weight-light">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Inventore, itaque.</h5>

            <button class="btn btn-outline-light btn-flat">Download</button>

        </div>

    </section>

    <section class="section" id="contact">

        <div class="container text-center">

            <h6 class="display-4 has-line">CONTACT US</h6>

            <p class="mb-5 pb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>

            <form>

                <div class="row mb-4">

                    <div class="col-md-6">

                        <div class="form-group pb-1">

                            <input type="text" class="form-control" required placeholder="Name">

                        </div>

                        <div class="form-group pb-1">

                            <input type="email" class="form-control" required placeholder="Email">

                        </div>

                        <div class="form-group ">

                            <input type="text" class="form-control" placeholder="Subject">

                        </div>

                    </div>

                    <div class="col-md-6">

                        <textarea name="" id="" cols="" rows="7" class="form-control" required placeholder="Message"></textarea>

                    </div>

                </div>

                <input type="submit" class="btn btn-primary btn-block" value="Send Message">

            </form>

        </div>

    </section>

    <footer class="footer py-4 bg-dark text-light">

        <div class="container text-center">

            <p class="mb-4 small">Copyright <script>document.write(new Date().getFullYear())</script> &copy; <a href="http://www.devcrud.com">DevCRUD</a></p>

            <div class="social-links">

                <a href="javascript:void(0)" class="link"><i class="ti-facebook"></i></a>

                <a href="javascript:void(0)" class="link"><i class="ti-twitter-alt"></i></a>

                <a href="javascript:void(0)" class="link"><i class="ti-google"></i></a>

                <a href="javascript:void(0)" class="link"><i class="ti-pinterest-alt"></i></a>

                <a href="javascript:void(0)" class="link"><i class="ti-instagram"></i></a>

                <a href="javascript:void(0)" class="link"><i class="ti-rss"></i></a>

</div>

   </div>

    </footer>

    <!-- core  -->

    <script src="assets/vendors/jquery/jquery-3.4.1.js"></script>

    <script src="assets/vendors/bootstrap/bootstrap.bundle.js"></script>

    <!-- bootstrap 3 affix -->

    <script src="assets/vendors/bootstrap/bootstrap.affix.js"></script>

    <!-- Rubic js -->

    <script src="assets/js/rubic.js"></script>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <script src="{% static 'myjquerynew.js' %}"></script>

    <title>Document</title>

</head>

<body>

    <a href="/login">Login again</a>

  <script>

    $(document).ready(function() {

        function disableBack() { window.history.forward() }

        window.onload = disableBack();

        window.onpageshow = function(evt) { if (evt.persisted) disableBack() }

    });

 </script>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

</body>

</html>

{% load static %}

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <link rel="stylesheet" href="{% static 'assets/vendors/themify-icons/css/themify-icons.css' %}">

    <link rel="stylesheet" href="{% static 'assets/css/rubic.css' %}">

</head>

<body>

    <div class="container">

        <div class="row h-100 align-items-center">

            <form class="header-form" method="post" action="/registration" >

                {% csrf\_token %}

                <div class="body">

                    <div class="form-group">

                        <input type="text" class="form-control" placeholder="Name\*" name="nam">

                    </div>

                    <div class="form-group">

                        <input type="email" class="form-control" placeholder="Email\*" name="eml">

                    </div>

                    <div class="form-group">

                        <input type="password" class="form-control" placeholder="Password\*" name="paswd">

                    </div>

                    <div class="form-group">

                        <input type="text" class="form-control" placeholder="User name\*" name="usrnam">

                    </div>

                    <div class="form-group">

                        <input type="tel" class="form-control" placeholder="Contact number" name="cnum">

                    </div>

                </div>

                <div class="footer">

                    <button class="btn btn-primary btn-block">Sign in</button>

                </div>

</form>

</div>

    </div>

</body>

</html>

## Output

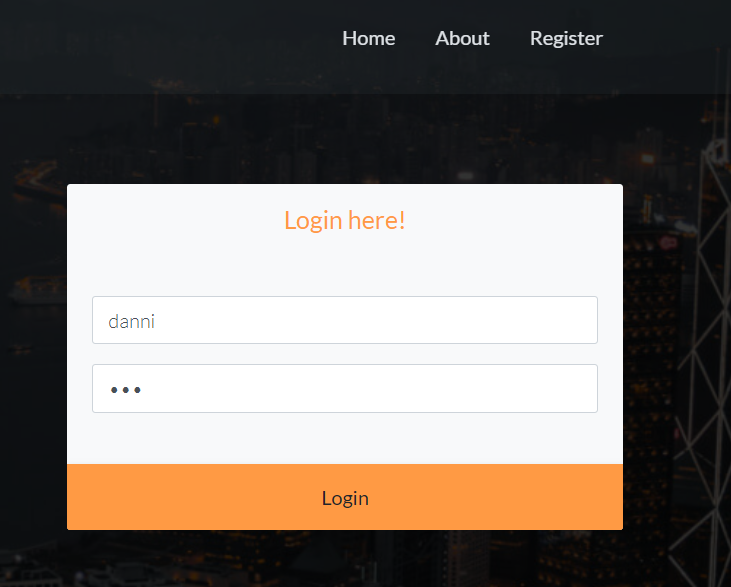


Figure A.1: login-User Interface

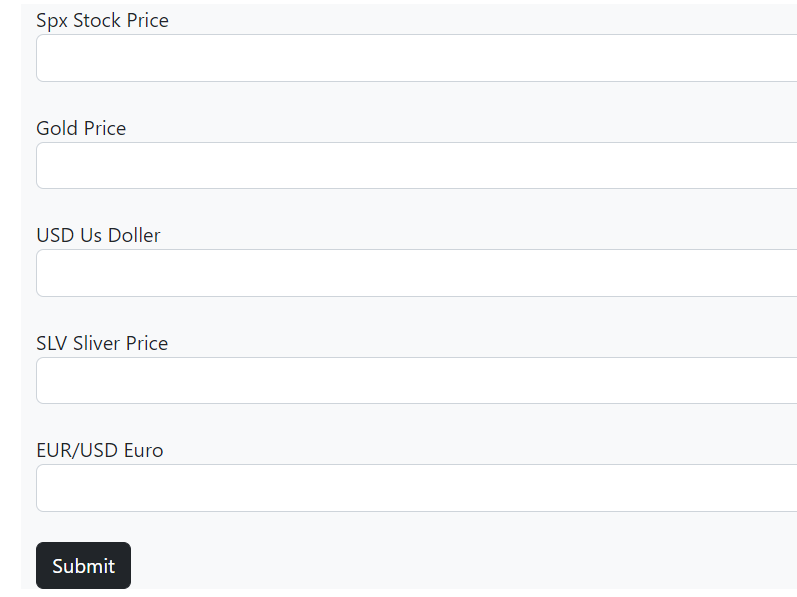


Figure A.2: Prediction form

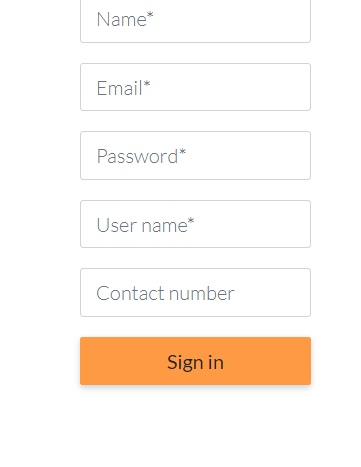


Figure A3.user login

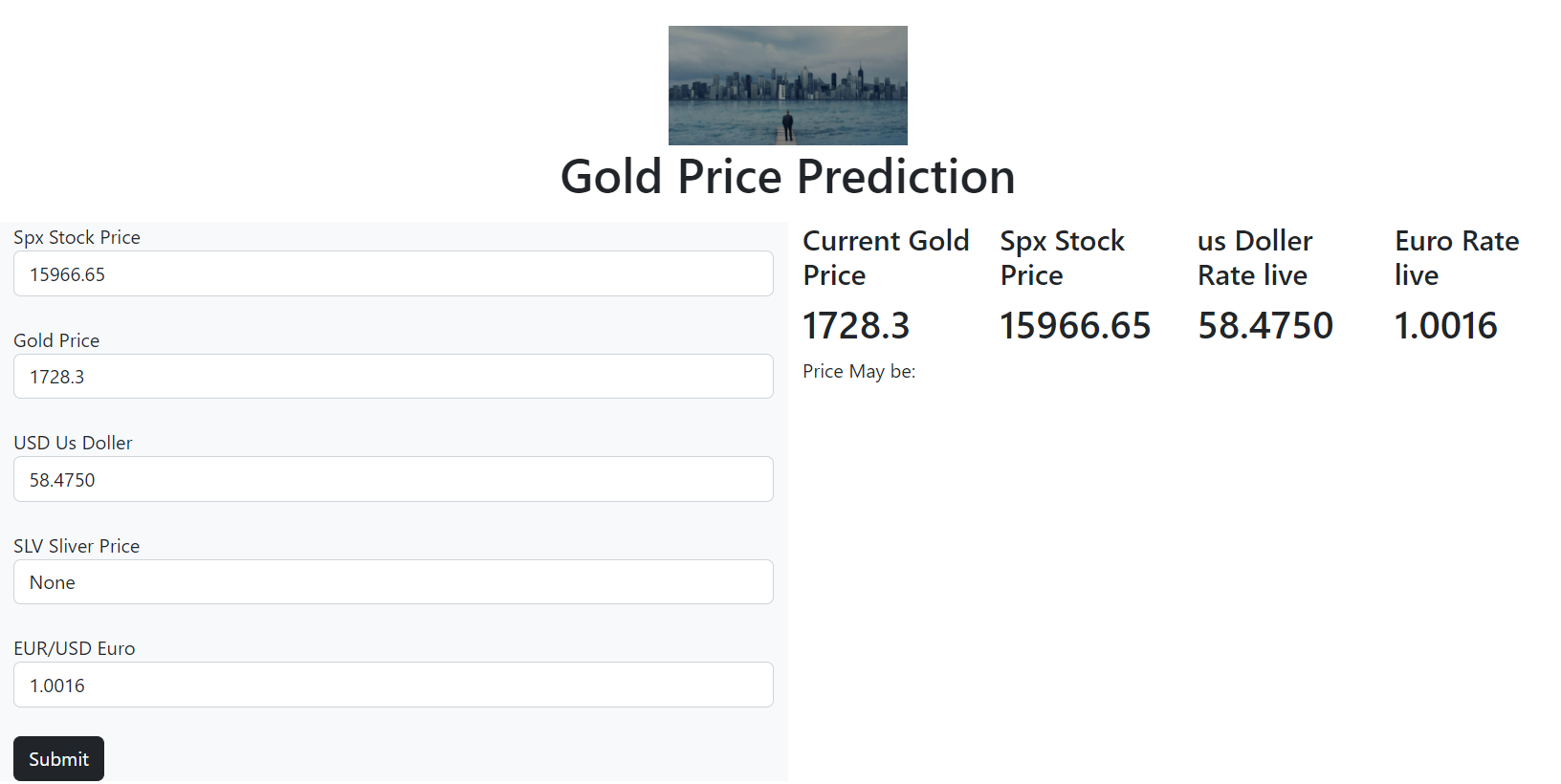


Figure A.4 Predicted gold price

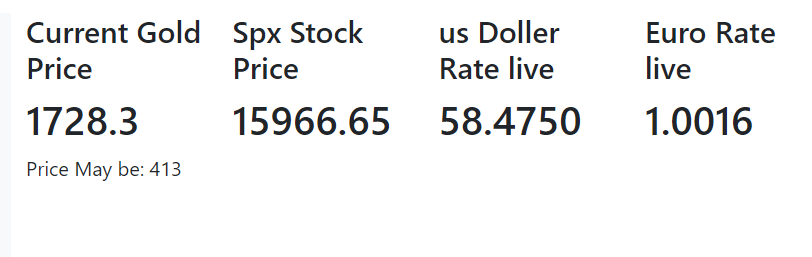


Figure A.5 Gold price

**GIT HISTORY**

**COMMITS**