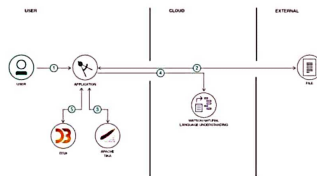


Date	15 Nov 2022
Team ID	PNT2022TMID45501
Project Name	Crude Oil Price Prediction
Maximum Marks	4 Marks

The classic visual representation of how information moves through a system is a data flow diagram (DFD). A tidy and understandable DFD can graphically represent the appropriate quantity of the system demand. It demonstrates how information enters and exits the system, what modifies the data, and where information is kept.

Flow



-
- ```

graph TD
 User((User)) -- Application --> Model[Proposed Deep Learning Model for Crude Oil Price Prediction]
 Model --> Load[Load the latest news and weather data feeds]
 Model --> Train[Train using the latest news and weather data feeds]
 Model --> Eval[Evaluate model performance]
 Model --> Visual[Visualize model performance]
 Model --> Deploy[Deploy model for prediction]
 Model --> Monitor[Monitor model performance]
 Model --> Update[Update model with latest data]
 Model --> Archive[Archive model for future use]
 Model --> Backup[Backup model for disaster recovery]
 Model --> Restore[Restore model from backup]
 Model --> Delete[Delete model if no longer needed]

```
- The flowchart illustrates the proposed deep learning architecture for crude oil price prediction. It begins with a 'User' (represented by a blue circle) who initiates the 'Application'. This leads to the 'Proposed Deep Learning Model for Crude Oil Price Prediction' (represented by a purple rectangle). From this central model, several parallel processes are shown: 'Load the latest news and weather data feeds' (green rectangle), 'Train using the latest news and weather data feeds' (orange rectangle), 'Evaluate model performance' (yellow rectangle), 'Visualize model performance' (yellow rectangle), 'Deploy model for prediction' (yellow rectangle), 'Monitor model performance' (yellow rectangle), 'Update model with latest data' (yellow rectangle), 'Archive model for future use' (yellow rectangle), 'Backup model for disaster recovery' (yellow rectangle), and 'Restore model from backup' (yellow rectangle). Additionally, the model is linked to 'Delete model if no longer needed' (yellow rectangle).

## User Stories

Use the below template to list all the user stories for the product.

| User Type               | Functional Requirement (Epic) | User Story Number | User Story / Task                                                                                                                                               | Acceptance criteria                            | Priority | Release  |
|-------------------------|-------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------|----------|
| Customer (Mobile user)  | Application                   | USN-1             | You can download the crude oil price by opening the Google Play Store app directly as a user.                                                                   | I can access own decisions.                    | High     | Sprint-1 |
|                         | Available Products            | USN-2             | Users of the application may instantly update the energy and oil prices while using it because there are so many different products in the crude oil price app. | I can receive the data once click then confirm | High     | Sprint-1 |
|                         | Additional Features           | USN-3             | Users can read the most recent news and see oil price charts.<br>Major Energy Quotes User View<br>The user may use many colour schemes.                         | I can view then read the price prediction.     | High     | Sprint-2 |
|                         | Expectations                  | USN-4             | User Can Convert Currency And Exchange Rates                                                                                                                    | I can expect                                   | Medium   | Sprint-1 |
|                         | Login                         | USN-5             | Log in as a user without using your email address, username, or password.                                                                                       |                                                | High     | Sprint-1 |
|                         |                               |                   |                                                                                                                                                                 |                                                |          |          |
| Customer (Web user)     |                               |                   | I can see the price of crude oil as a consumer.                                                                                                                 | I can view the price directly                  | High     | Sprint-1 |
| Customer Care Executive |                               |                   | I am the user and I executive the pricing history.                                                                                                              | I can accept the terms                         | medium   | Sprint-1 |
| Administrator           |                               |                   | As a manager, it anticipates the results.                                                                                                                       | Show the result                                | High     | Sprint-1 |
|                         |                               |                   |                                                                                                                                                                 |                                                |          |          |
|                         |                               |                   |                                                                                                                                                                 |                                                |          |          |
|                         |                               |                   |                                                                                                                                                                 |                                                |          |          |