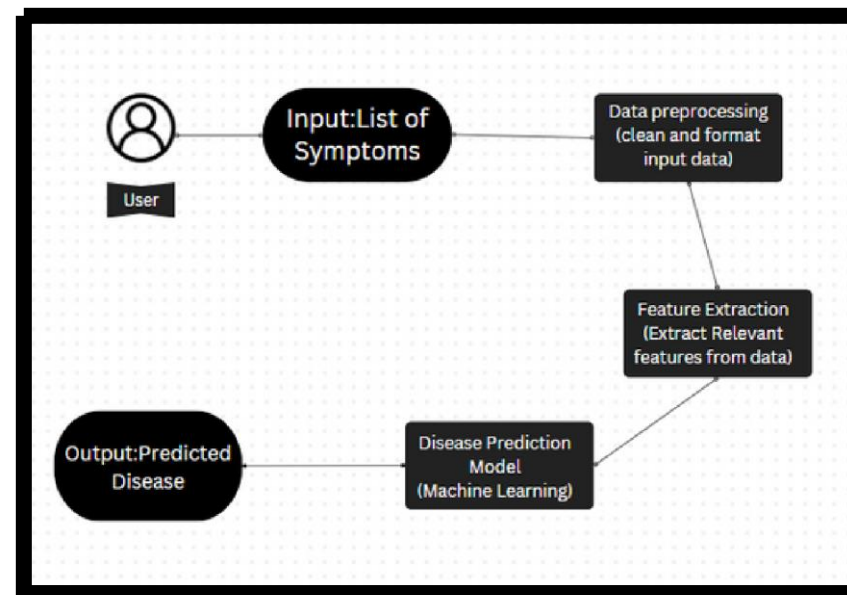


Project Design Phase-II Data Flow Diagram & User Stories

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|---------------|---|
| Date | 20 October 2023 |
| Team ID | Team-592199 |
| Project Name | Disease Prediction Using Machine Learning |
| Maximum Marks | 4 Marks |

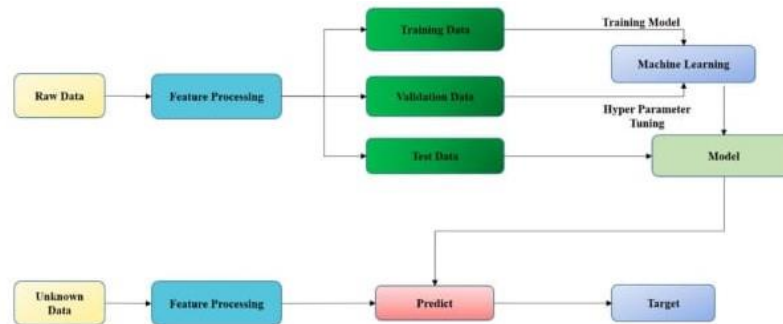
Data Flow Diagrams:



simplified flowchart that predicts
diseases based on input symptoms

Data Flow Descriptions:

1. User provides a list of symptoms, leading to the List of Symptoms process.
2. List of Symptoms process performs data preprocessing, resulting in pre-processed data stored in the respective data store.
3. Preprocessed data undergoes feature extraction, producing extracted features stored in the corresponding data store.



4. The List of Symptoms process uses training data to train the machine learning model, resulting in a trained model stored in the relevant data store.
5. User input triggers the prediction process, utilizing the trained model and extracted features to predict the disease.
6. The predicted disease is sent to the external entity representing the output.

This DFD provides a high-level overview of the data flow in the disease prediction system, highlighting the interactions between external entities, processes, and data stores.

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|-------------------------|-------------------------------|-------------------|---|---|----------|----------|
| Customer (Mobile User) | Symptom Input | USN-1 | As a user, I can enter the number of symptoms on the web page | The web page has an input field for entering the number of symptoms | High | Sprint-1 |
| | History Tracking | USN-2 | As a user, I can view a history of my past symptom submissions | The system displays a log of previously entered symptoms | Medium | Sprint-2 |
| | Symptom Prediction | USN-3 | As a user, I can submit the symptoms on the web page | After submission, the web page redirects to the output page with predicted symptoms | High | Sprint-2 |
| Customer (Web User) | Symptom Input | USN-4 | As a web user, I can enter the number of symptoms on the web page | The web page has an input field for entering the number of symptoms | Medium | Sprint-2 |
| | Symptom Prediction | USN-5 | As a web user, I can submit the symptoms on the web page | After submission, the web page redirects to the output page with predicted symptoms | Medium | Sprint-2 |
| | Report Generation | USN-6 | As a web user, I can generate a report of my symptom history | The system provides a downloadable report of past symptom submissions | Low | Sprint-3 |
| Customer Care Executive | Symptom Monitorin | USN-7 | As a customer care executive, I can view the number of symptoms entered by a user | The customer details page displays the number of symptoms entered | High | Sprint-1 |

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|---------------|---------------------------|--------|--|---|--------|----------|
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| | Symptom Prediction Access | USN-8 | As a customer care executive, I can access the output page with predicted symptoms | The customer care executive can view the predicted symptoms on the output page | High | Sprint-1 |
| | User Search | USN-9 | As a customer care executive, I can search for a user by their name | The search results display the correct user information | Medium | Sprint-2 |
| Administrator | System Analytics | USN-10 | As an administrator, I can monitor the number of symptoms submitted by users | The system analytics page displays the statistics on the number of symptoms entered | Medium | Sprint-2 |
| | Symptom Prediction Access | USN-11 | As an administrator, I can access the output page with predicted symptoms | The administrator can view the predicted symptoms on the output page | Medium | Sprint-2 |
| | User Management | USN-12 | As an administrator, I can deactivate a user account | The system prevents the deactivated user from submitting new symptoms | Low | Sprint-3 |
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