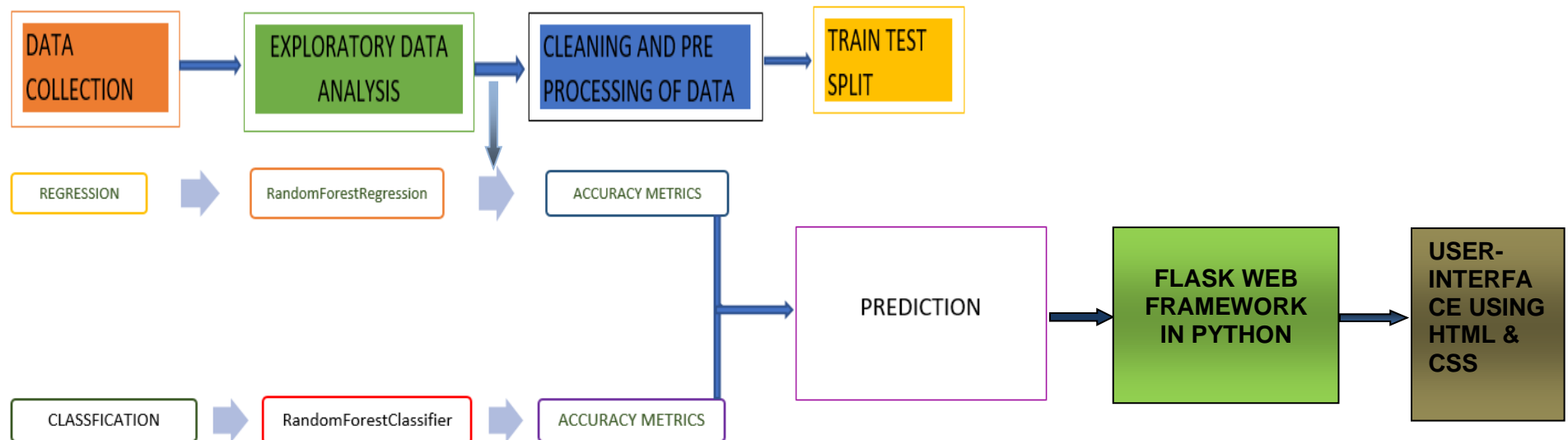


Project Design Phase-II
Data Flow Diagram & User Stories

| | |
|---------------|--|
| Team ID | PNT2022TMID22216 |
| Project Name | Early Detection of Chronic Kidney Disease using Machine Learning |
| Maximum Marks | 4 Marks |

Data Flow Diagrams:



Data Flow of Chronic Disease Prediction

1. Patients' medical information is gathered through kaggle.
2. On the supplied dataset, exploratory data analysis was performed.
3. Then eliminate duplicates, outliers, and null values.
4. A definition of the dependent and independent variables are set.
5. The Train test split is done
6. A classification and regression model are both constructed.
7. The model is trained with Random Forest Classifier for classification, then tested with test dataset.
8. The model is trained with a Random Forest Regressor for regression and evaluated using a test dataset.
9. The model is then fitted with a front end that is created using HTML and CSS using the Python Flask Web Framework.
10. The outcome for the user-input data will then be projected.

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 (Web user) | Registration | USN-1 | I may sign up for the programme as a user by providing my email address, a password, and a password confirmation. | I can access my account / dashboard | High | Sprint-1 |
| | Verification | USN-2 | When I register for the application as a user, I will get a confirmation email. | I can receive confirmation email & click confirm | High | Sprint-1 |
| | Login | USN-3 | I may access the application as a user by providing my email address and password. | Check whether password and email is correct | High | Sprint-1 |
| | Dashboard | USN-4 | If the email id and password is correct, the user can log in to application otherwise it shows 'incorrect password or Id'. | View the dashboard of user who is log in | High | Sprint-1 |
| Customer Care Executive | Help | USN-5 | The user can contact us via email if they run across any problems. | Report option will be available in web app | High | Sprint-2 |
| Administrator | Verification | USN-6 | The administrator can log in with a special ID and password as well. He has more users to manage the users of this online application. | Check whether password and email is correct | High | Sprint-3 |