Project Design Phase-II Data Flow
Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022TMID21554
Project Name	Analytics for Hospital's Health-Care Data
Maximum Marks	4 Marks

Data Flow Diagrams:

```
        ┌──────────┐
        │   Data   │
        └────┬─────┘
             │
             ▼
    ┌─────────────────┐
    │  Data Collecting │
    └────────┬────────┘
             │
             ▼
    ┌─────────────────┐      ┌─────────────────┐
    │  Data Integrity │─────▶│  Data Pre-      │
    └─────────────────┘      │  processing     │
                             └────────┬────────┘
                                      │
                                      ▼
                             ╱─────────────────╲
                            ╱   Is Data          ╲          ┌─────────────────┐
                           ╱    Pre-              ╲────────▶│  Data           │
                           ╲    processed?        ╱          │  Normalization  │
                            ╲                    ╱           └────────┬────────┘
                             ╲─────────────────╱                      │
                                                                      ▼
        ┌─────────────────┐      ┌─────────────────┐        ┌─────────────────┐
        │  Cognos         │◀─────│  Feature        │───────▶│  Data Splitting │
        │  Analytics      │      │  Selection      │        └────────┬────────┘
        └────────┬────────┘      └─────────────────┘                 │
                 │                                                     ▼
                 ▼                                          ┌─────────────────┐
        ┌─────────────────┐                                 │  Train and Test │
        │  Exploration and │                                 │  Model          │
        │  Visualizations │                                 └─────────────────┘
        └────────┬────────┘                                          ▲
                 │              ┌─────────────────┐                  │
                 └─────────────▶│  Model          │──────────────────┘
                                │  Evaluation     │
                                └────────┬────────┘
                                         │
                                         ▼
                                ┌─────────────────┐
                                │  Predicted LOS  │
                                └─────────────────┘
```
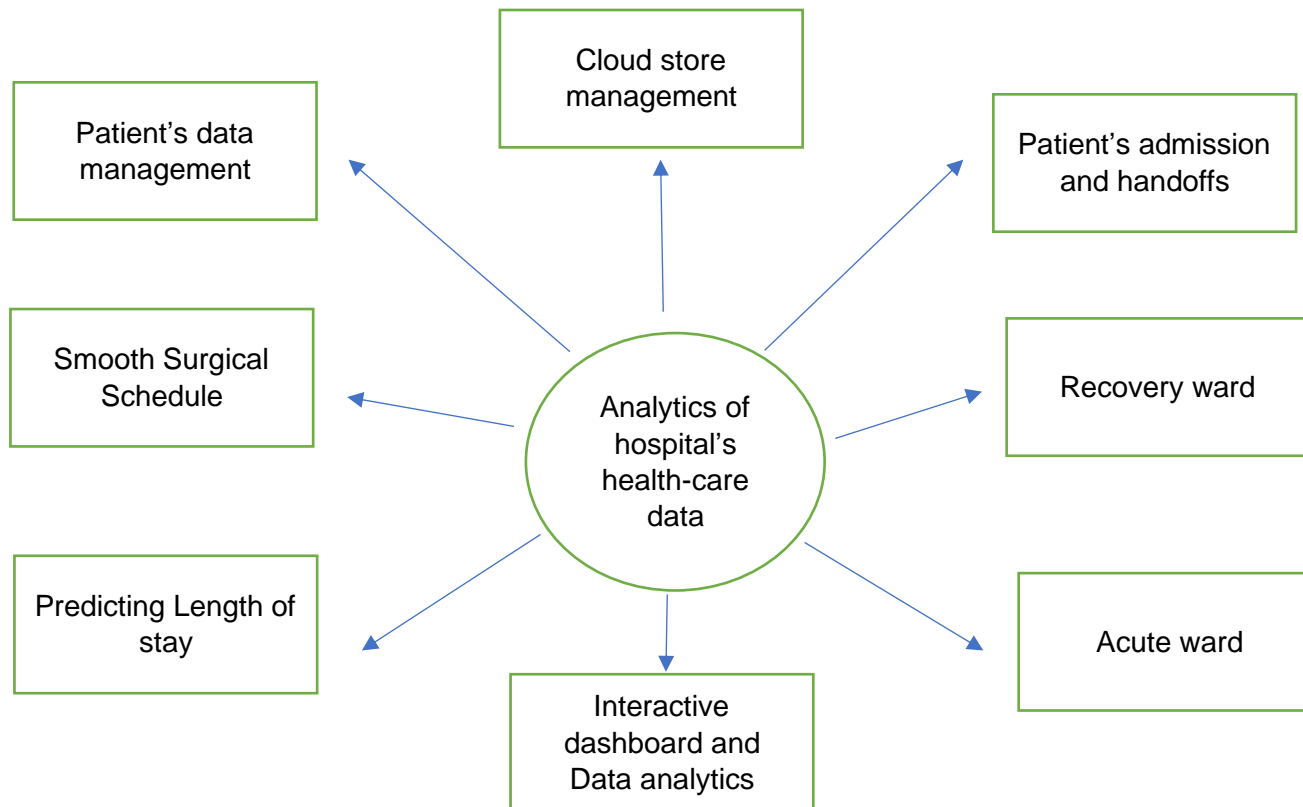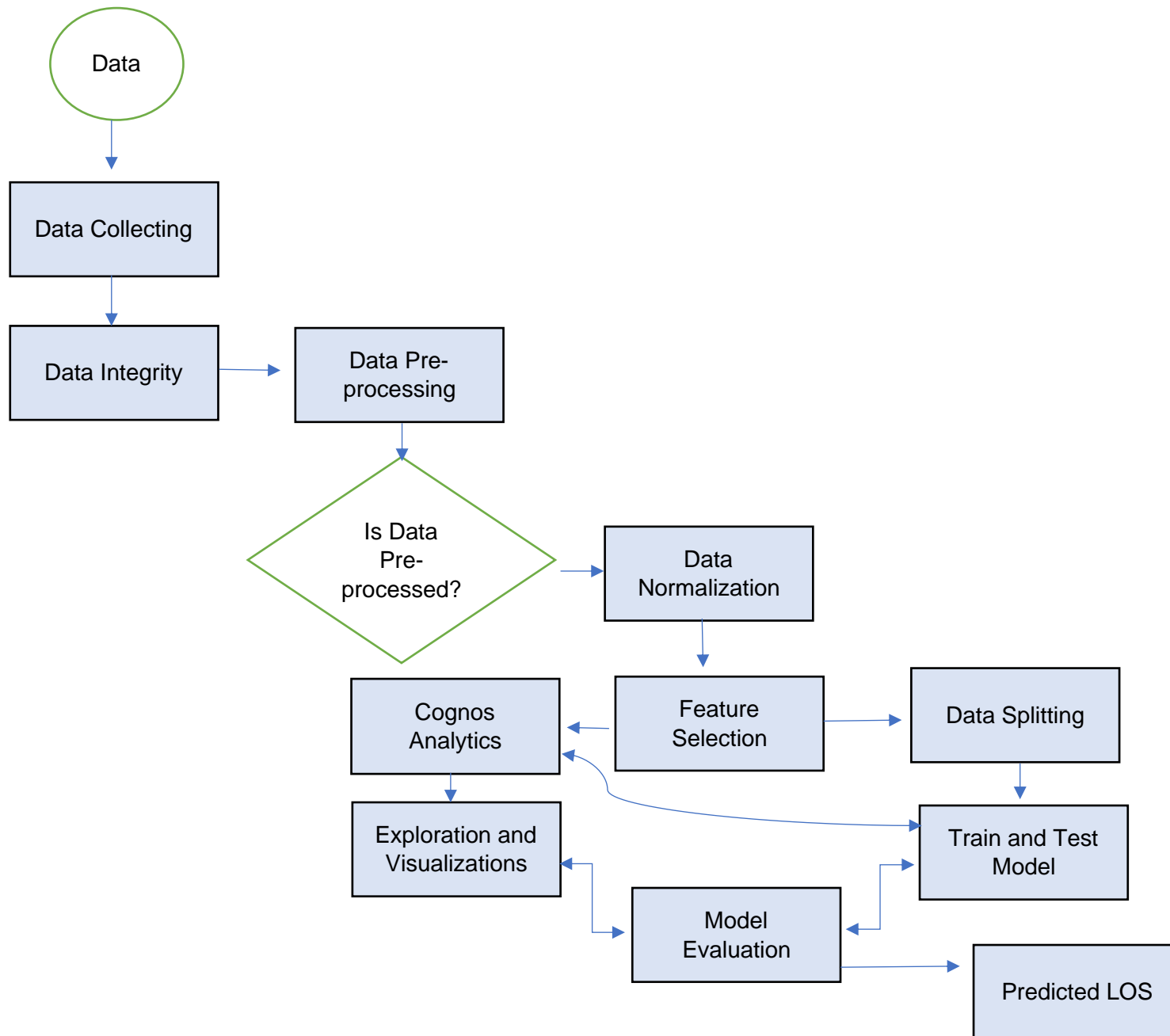
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can sign in for the application entering my email, password	I can access my account dashboard	High	Sprint-1
			As a user, I can sign up for the application through google		High	Sprint-1
		USN-2	As a user, I will receive confirmation email	I can click confirmation email	High	Sprint-1
		USN-3	As a user, I can register for the application through Instagram	I can access the dashboard with Instagram Login	Low	Sprint-2
		USN-4	As a user, I can register for the application to know the length of stay of patients	I can access patient's data based on their severeness	High	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering user id & password		High	Sprint-1
		USN-6	As a user I can explore the all the details regarding to hospital in my dashboard		Medium	Sprint-2
Administrator	Updating data	USN-7	As a user I can collect the data of all the patients from their attendees and I can store it	I can check the gathered data and can store it	High	Sprint-1
		USN-8	As a Administrator I can categorize the patients based on their risk factors		High	Sprint-1
Customer (Web User)	Accessing the resources	USN-9	As a user I can get all the informations in the dashboard	These resources cannot be accessed by others but only me	High	Sprint -1

| Customer tools | Tools | USN -10 | As a user I can explore the data through data visualization tools like Cognos analytics | | High | Sprint 2 |