Project Design Phase-II
Data Flow Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022TMID23362
Project Name	Personal expense tracker
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
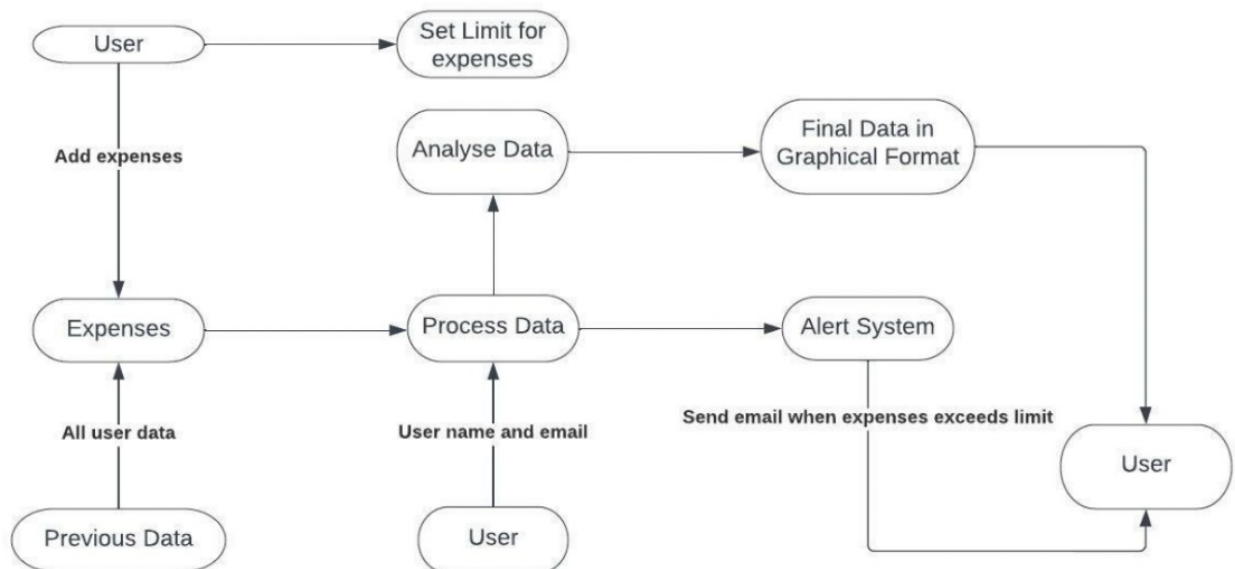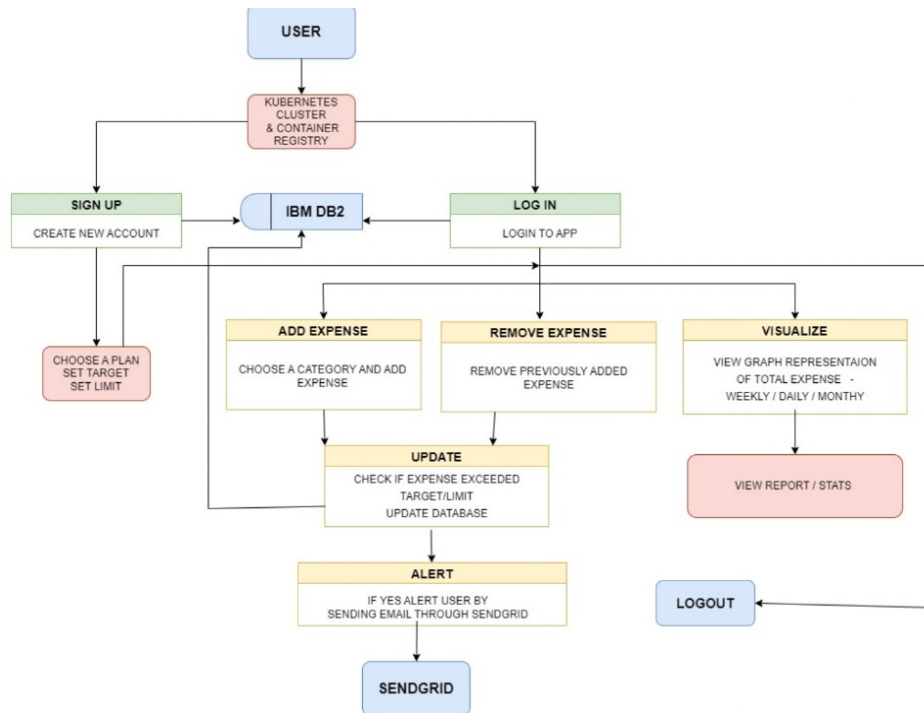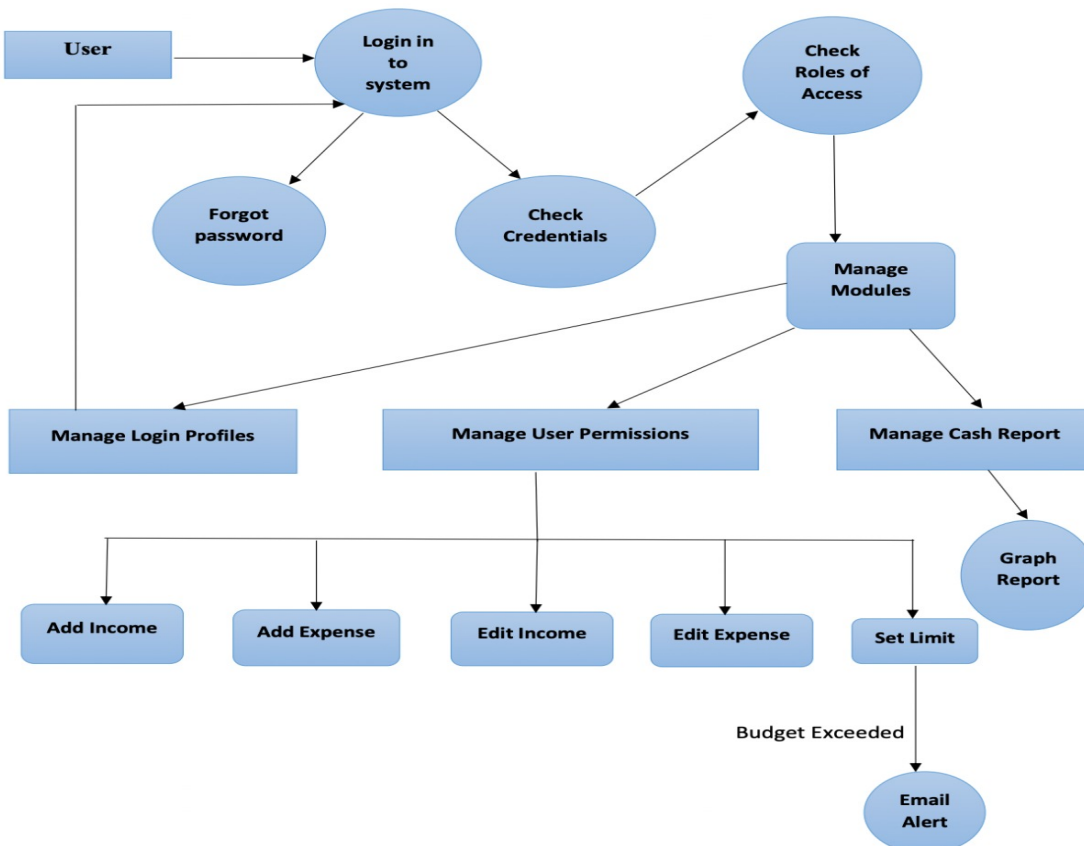
Flow diagrams:
DIagram - 1:

Diagram - 2:

```
                              ┌──────────┐
                              │   USER   │
                              └────┬─────┘
                                   │
                         ┌─────────┴──────────┐
                         │    KUBERNETES      │
                         │    CLUSTER         │
                         │    & CONTAINER     │
                         │    REGISTRY        │
                         └─────────┬──────────┘
          ┌──────────────────────┬┴────────────────────────┐
          │                      │                          │
┌──────────────────┐      ┌────────────┐          ┌──────────────────┐
│     SIGN UP       │      │  IBM DB2   │          │      LOG IN       │
│                   │─────>│            │<─────────│                   │
│ CREATE NEW ACCOUNT│      └────────────┘          │  LOGIN TO APP     │
└────────┬──────────┘                              └────────┬─────────┘
         │                                                  │
         │                     ┌───────────────┬────────────┼─────────────────────┐
┌────────┴──────────┐   ┌─────────────┐  ┌──────────────┐  ┌──────────────────────┐
│  CHOOSE A PLAN    │   │ ADD EXPENSE │  │REMOVE EXPENSE│  │      VISUALIZE        │
│  SET TARGET       │   │             │  │              │  │ VIEW GRAPH REPRESENTAION│
│  SET LIMIT        │   │CHOOSE A     │  │REMOVE        │  │ OF TOTAL EXPENSE  -    │
└───────────────────┘   │CATEGORY AND │  │PREVIOUSLY    │  │ WEEKLY / DAILY / MONTHY│
                        │ADD EXPENSE  │  │ADDED EXPENSE │  └──────────┬───────────┘
                        └──────┬──────┘  └──────┬───────┘             │
                               │                │           ┌──────────────────────┐
                               │    ┌───────────┴──────┐    │  VIEW REPORT / STATS  │
                               └───>│     UPDATE        │    └──────────────────────┘
                                    │ CHECK IF EXPENSE  │
                                    │ EXCEEDED          │
                                    │ TARGET/LIMIT      │
                                    │ UPDATE DATABASE   │
                                    └────────┬──────────┘
                                    ┌────────┴──────────┐        ┌──────────┐
                                    │      ALERT        │        │  LOGOUT  │
                                    │ IF YES ALERT USER │        └──────────┘
                                    │ BY SENDING EMAIL  │
                                    │ THROUGH SENDGRID  │
                                    └────────┬──────────┘
                                    ┌────────┴──────────┐
                                    │     SENDGRID      │
                                    └───────────────────┘
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Diagram - 3:

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)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Google account.	I can register & access the dashboard with Google login.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register through gmail.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access the application.	High	Sprint-1
	Dashboard	USN-6	As a user,I can enter my income and expenditure details (Set Budget).	I can view my daily expenses	High	Sprint-2
Customer (Web user)	Registration And Login	USN-7	As a user, I can register for the application by entering my email and will receive a confirmation email.Then I can log into the application by entering email & password	I can register & access the dashboard with Google and login.	Medium	Sprint-1
	Dashboard	USN-8	As a user,I can enter my income and expenditure details (Set Budget).	I can access my account / dashboard	High	Sprint-2
Customer Care Executive		USN-9	As a customer care executive I can solve the medium log in issues and other issues of the application.	I can provide support or solution at any time 24x7	Medium	Sprint-2
Administrator		USN-10	As a administrator I can upgrade or update the application.	I can fix the bug which arises for the customers	Medium	Sprint-2