SRS Document

(116) - **Personal Diary Application**

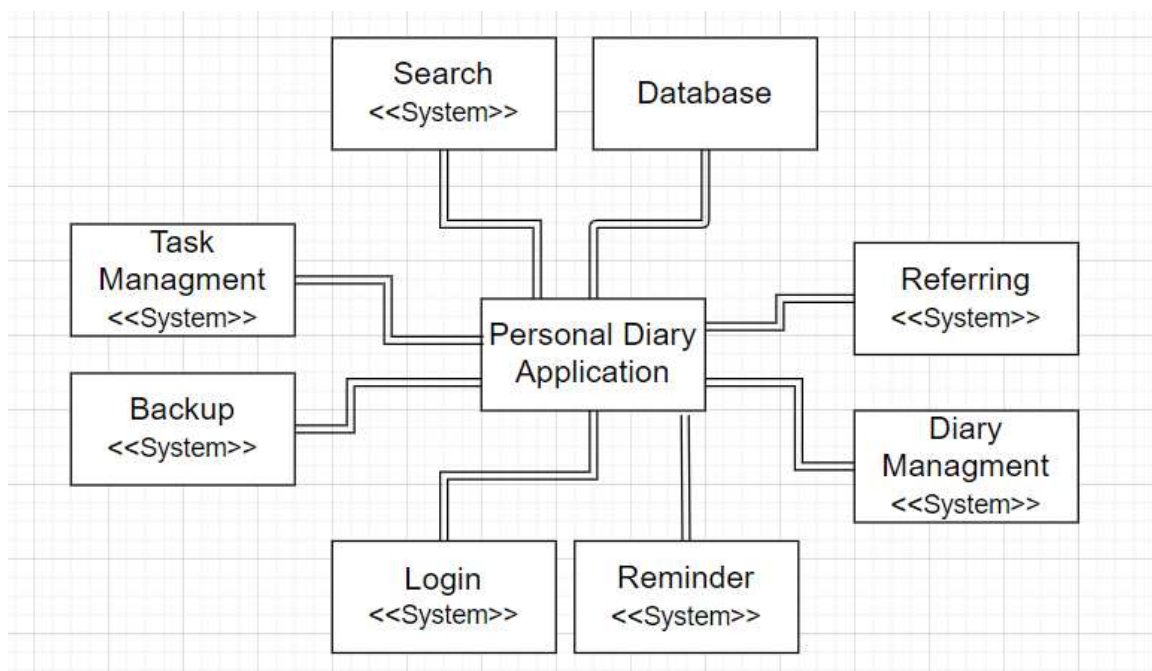Supervisor TA: **Engy Abdullah**

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1. **Introduction**

   Diaries are objects that allow you to discuss his emotions, record dreams or ideas, and reflect on daily life in a safe, private space. The user can keep records of the important things he do in his daily life, like meetings and various other tasks, so this app provides writing his diaries and manage them. The user can view, search and edit his diaries. It also helps him to record his important upcoming tasks and reminds him of them, records can be added with many information such as duration of task, name, tag and priority.

2. **Context Diagram**

3. **User Requirements**

   As a user I need to be able to:

   - Write down my diaries daily
   - Display all diaries
   - Change text styling
   - Add, edit, delete diaries or tasks
   - Add title to my diary
   - Set deadline to a task
   - Add tags that categorizes my diary

- Search for diaries by title, date or tags

- Sort my diaries alphabetically, or by date

- Receive a reminder to write my diary

- Backup all my diaries

- Add specific diaries to favorites

- Add a link to a pervious diary

4. **Functional Requirement**

- **Sign up:**

    - **Description**: Creates new account for the user

    - **Inputs:** Username, Password, email, phone number

    - **Source:** User Interface

    - **Pre-conditions:** Email shouldn't have been registered previously

    - **Post-conditions:** Redirect to login

    - **Output:** Display success message

- **Login:**

    - **Description**: Login to a registered account

    - **Inputs:** Username, Password

    - **Source:** User Interface

    - **Pre-conditions:** The user should have an account

    - **Post-conditions:** Call view diaries

    - **Output:** Display success message, display diaries

- **Add Diaries:**

    - **Description**: The user is able to write his daily events

    - **Inputs:** Diary title, Diary text, Date, Tags

    - **Source:** User Interface

    - **Pre-conditions:** The user should be logged in

    - **Post-conditions:** Commit the new changes to the database

- **Output:** Display success message
- **Add Tasks:**
    - **Description**: The user is able to write and save important tasks
    - **Inputs:** Task Description, Deadline, Priority
    - **Source:** User Interface
    - **Pre-conditions:** The user should be logged in
    - **Post-conditions:** Commit the new changes to the database
    - **Output:** Display success message
- **View diaries:**
    - **Description**: Retrieve all the diaries from the database and map it to a list and then display it
    - **Inputs:** List of Diaries
    - **Source:** Database
    - **Pre-conditions:** The user should be logged in, there should be one or more diaries stored
    - **Post-conditions:** Can manage diaries
    - **Output:** Displayed list of diaries sorted by date by default
- **Sorting:**
    - **Description**: Arrange diaries or tasks alphabetically or by date in ascending or descending order
    - **Inputs:** List of Diaries, Method of sorting
    - **Source:** Database
    - **Pre-conditions:** The user should be logged in, there should be one or more diaries stored
    - **Post-conditions:** Call View Diaries
    - **Output:** Sorted list of diaries
- **Search:**
    - **Description**: Match the input with the entry in the database, the user should be able to search the diaries by title, tag, date.

- **Inputs:** String (Title-Tag-Date)

- **Source:** User Interface

- **Pre-conditions:** The user should be logged in, there should be one or more diaries stored

- **Post-conditions:** Call View Diaries to display selected diaries

- **Output:** Diaries that match the input string

- **Reminder:**

  - **Description**: Remind the user to write a diary daily, or schedule a reminder for a task

  - **Inputs:** Deadline for the reminder, title, description, tag

  - **Source:** User Interface

  - **Pre-conditions:** The user should be logged in, the date entered should be after or the current date

  - **Post-conditions:** Check if the current date has arrived

  - **Output:** Display notification

- **System Backup:**

  - **Description**: A copy of all the diaries and tasks will be stored in a csv file

  - **Inputs:** List of Diaries

  - **Source:** Database

  - **Pre-conditions:** The user should be logged in, date at which the backup is recurring (Monthly)

  - **Post-conditions:** Display success message

  - **Output:** A csv file contains all diaries and tasks

5. **Non-functional Requirements**

- **Usability:** Time needed by user to learn the system doesn't exceed 10 mins

- **Secure:** Different users can't access each other's diaries

- **Execution speed:** Search and view doesn't take more than 2 seconds

- **Portable:** The app installation should be portable and easy

- **Size:** Application size doesn't exceed 50 MB

- **Reliability:** Save data before unexpected system crash

- **Maintainability:** Code base should be easily refactored and maintained

Starred Diary

User

My Diaries Form

Diary Controller

Diaries Database

Open

Add to Starred

Diary

Diary ID

Add To Starred Table

alt

Diary Found

Success Status

Success Status

Diary Not Found

Failed Status

Failed Status