**LIFE-SYNC**

**Table Design:**

1. **tbl\_user**

**Primary Key:** user\_id

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | user\_id | INT | PRIMARY KEY | Unique ID for each user |
| 2 | username | VARCHAR (100) | NOT NULL | Username of the user |
| 3 | email | VARCHAR (150) | UNIQUE, NOT NULL | User's email address |
| 4 | password | VARCHAR (255) | NOT NULL | Hashed password |
| 5 | created\_at | DATETIME | DEFAULT CURRENT\_TIME | Account creation timestamp |
| 6 | role | ENUM('admin','free','premium') | NOT NULL | User role: admin, free, or premium |

1. **tbl\_admin**

**Primary Key:** admin\_id

**Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

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| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | admin\_id | INT | PRIMARY KEY | Unique ID for each admin |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | permissions | TEXT | NOT NULL | List of admin-specific permissions (view/delete free users, approve premium users) |

1. **tbl\_todo**

**Primary Key:** todo\_id **Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

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| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | todo\_id | INT | PRIMARY KEY | Unique ID for each to-do item |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | task | TEXT | NOT NULL | Task description |
| 4 | is\_completed | BOOLEAN | DEFAULT FALSE | Task completion status |
| 5 | category | VARCHAR(50) | NULLABLE | Task category (optional for premium users) |

1. **tbl\_expense**

**Primary Key:** expense\_id  
**Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | expense\_id | INT | PRIMARY KEY | Unique ID for each expense |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | amount | DECIMAL(10,2) | NOT NULL | Expense amount |
| 4 | date | DATE | NOT NULL | Expense date |
| 5 | category | VARCHAR(50) | NULLABLE | Expense category |

1. **tbl\_health**

**Primary Key**: health\_id  
**Foreign Key**: user\_id REFERENCES tbl\_user(user\_id)

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| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | health\_id | INT | PRIMARY KEY | Unique ID for each health task |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | task | TEXT | NOT NULL | Health task description |
| 4 | is\_completed | BOOLEAN | DEFAULT FALSE | Task completion status |

1. **tbl\_calendar**

**Primary Key:** event\_id **Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | event\_id | INT | PRIMARY KEY | Unique ID for each calendar event |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | title | VARCHAR(100) | NOT NULL | Event title |
| 4 | date | DATE | NOT NULL | Event date |

1. **tbl\_notification**

**Primary Key:** notification\_id **Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)  
 event\_id REFERENCES tbl\_calender(event\_id)

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | notification\_id | INT | PRIMARY KEY | Unique ID for each notification |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | message | TEXT | NOT NULL | Notification message |
| 4 | is\_read | BOOLEAN | DEFAULT FALSE | Notification read status |
| 5 | event\_id | INT | FOREIGN KEY | References event\_id in tbl\_calender |

1. **tbl\_feedback**

**Primary Key:** feedback\_id  
**Foreign Key**: user\_id REFERENCES tbl\_user(user\_id)

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| Sl. No | Field Name | Data Type | Key Constraints | Description |
| 1 | feedback\_id | INT | PRIMARY KEY | Unique ID for each feedback |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | feedback | TEXT | NOT NULL | User feedback |
| 4 | submitted\_at | DATETIME | DEFAULT CURRENT\_TIME | Feedback submission timestamp |

1. **tbl\_payment**

**Primary Key:** payment\_id **Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

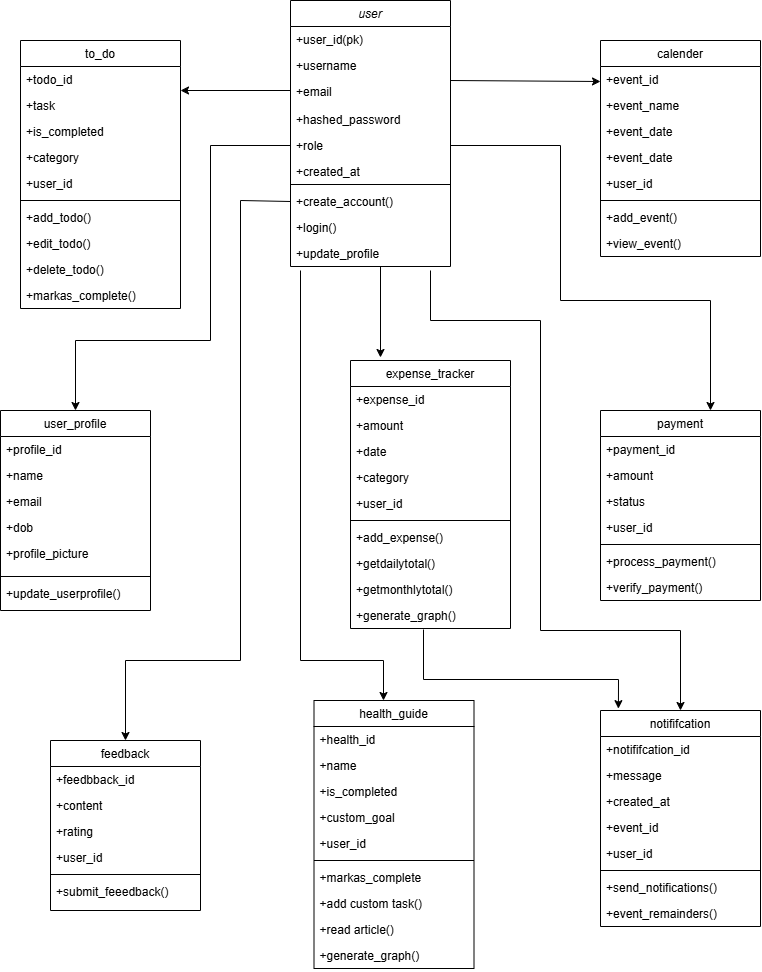
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No** | **Field Name** | **Data Type** | **Key Constraints** | **Description** |
| 1 | payment\_id | INT | PRIMARY KEY | Unique ID for each payment |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | amount | DECIMAL(10,2) | NOT NULL | Payment amount |
| 4 | payment\_date | DATETIME | DEFAULT CURRENT\_TIME | Payment timestamp |

1. **tbl\_userprofile**

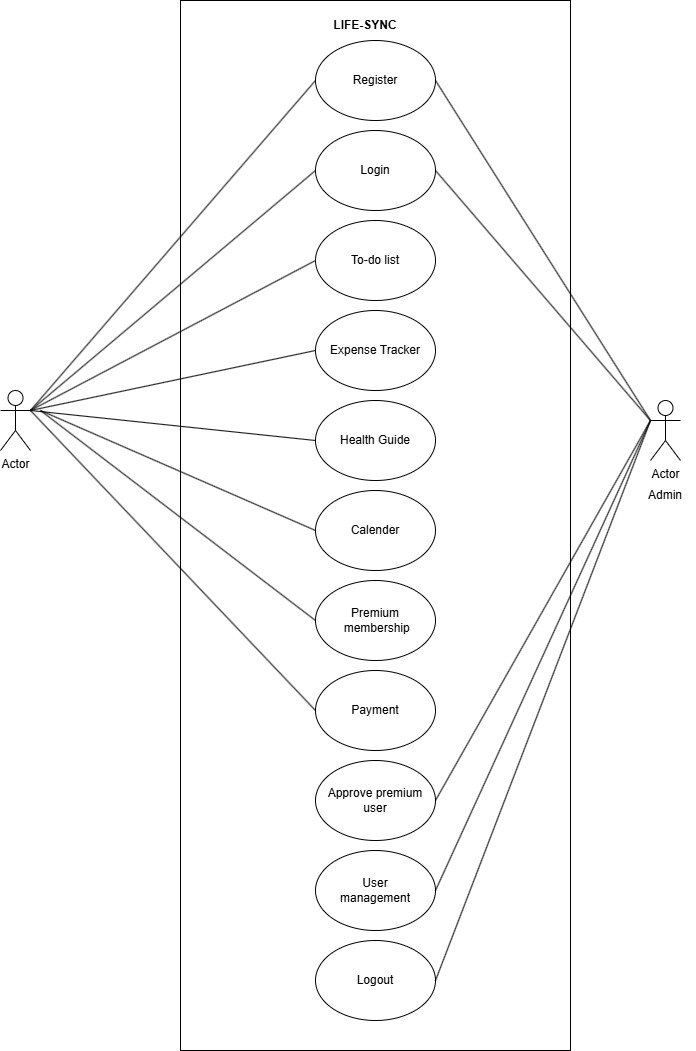
**Primary Key:** profile\_id  
**Foreign Key:** user\_id REFERENCES tbl\_user(user\_id)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No | Field Name | Data Type | Key Constraints | Description |
| 1 | profile\_id | INT | PRIMARY KEY | Unique ID for each profile |
| 2 | user\_id | INT | FOREIGN KEY | References user\_id in tbl\_user |
| 3 | name | VARCHAR(100) | NOT NULL | User's full name |
| 4 | profile\_picture | TEXT | NULLABLE | Path/URL to the user's profile picture |
| 5 | dob | DATE | NULLABLE | User's date of birth |
| 6 | email | VARCHAR(150) | UNIQUE, NOT NULL | User's email address |

**Class diagram:**

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**Use Case Diagram:**

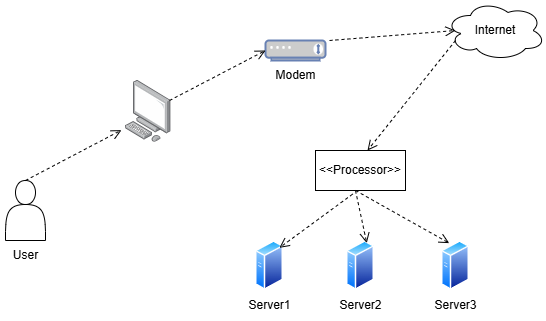


**Object diagram:**

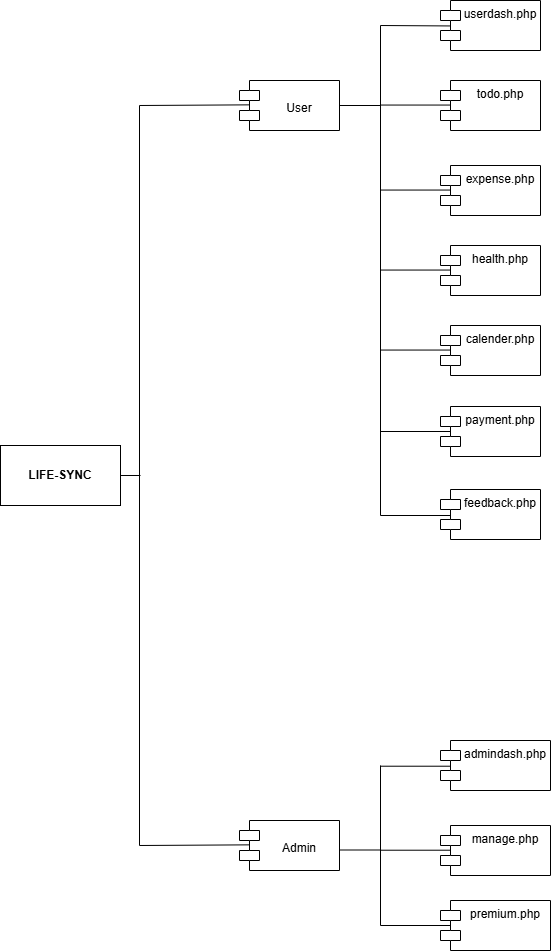
**A diagram of a computer

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**Deployment diagram:**

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**Component diagram:**

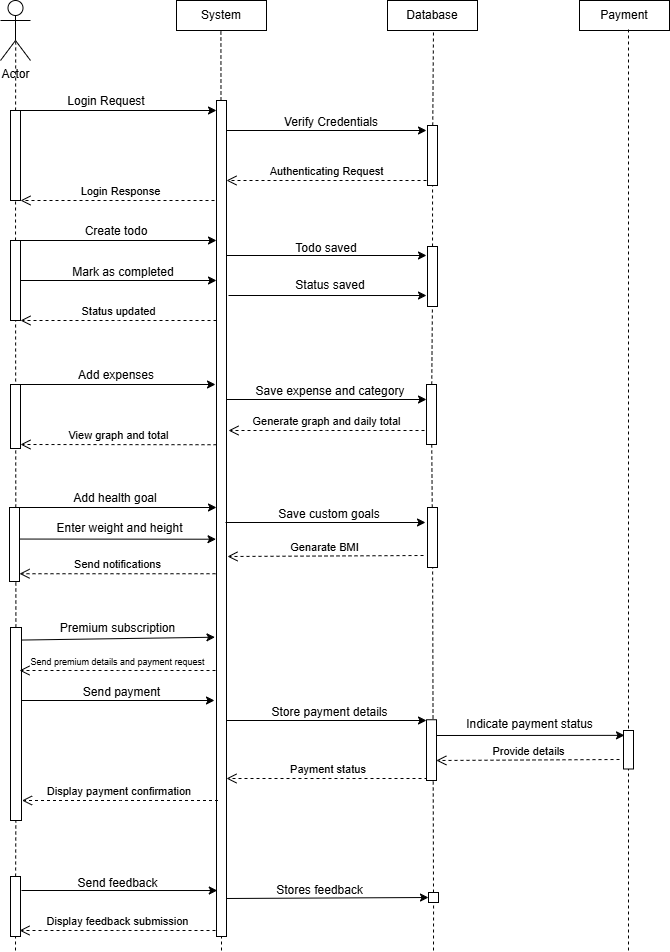
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**Activity diagram:**

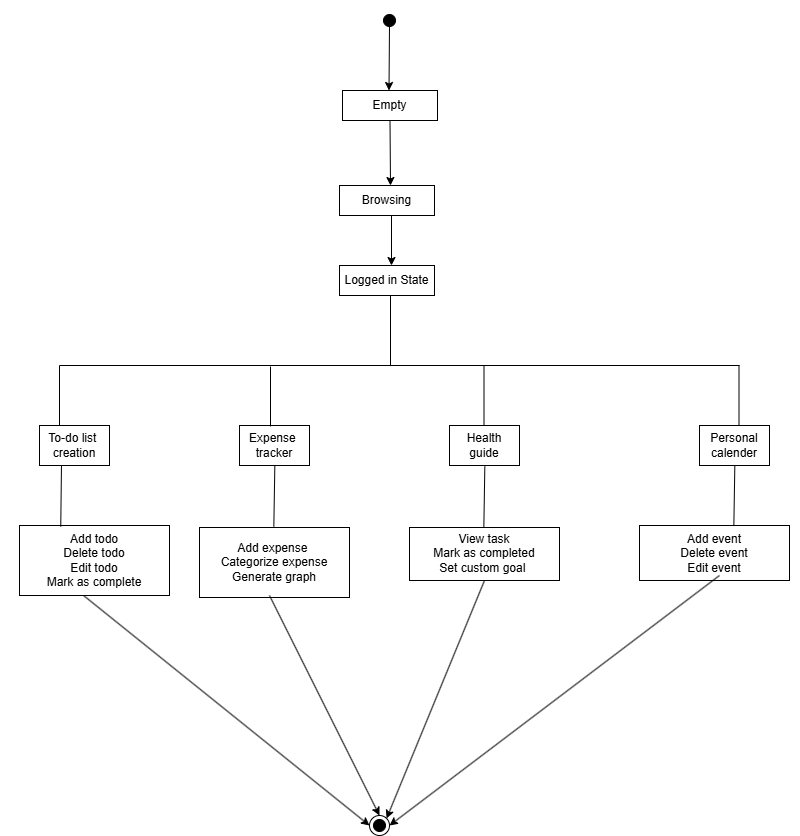
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**Sequence diagram:**

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**State chart diagram:**

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