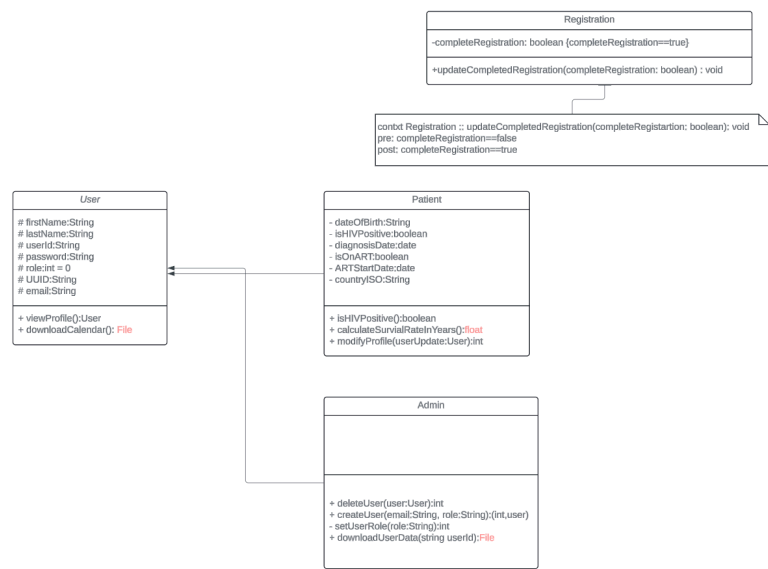
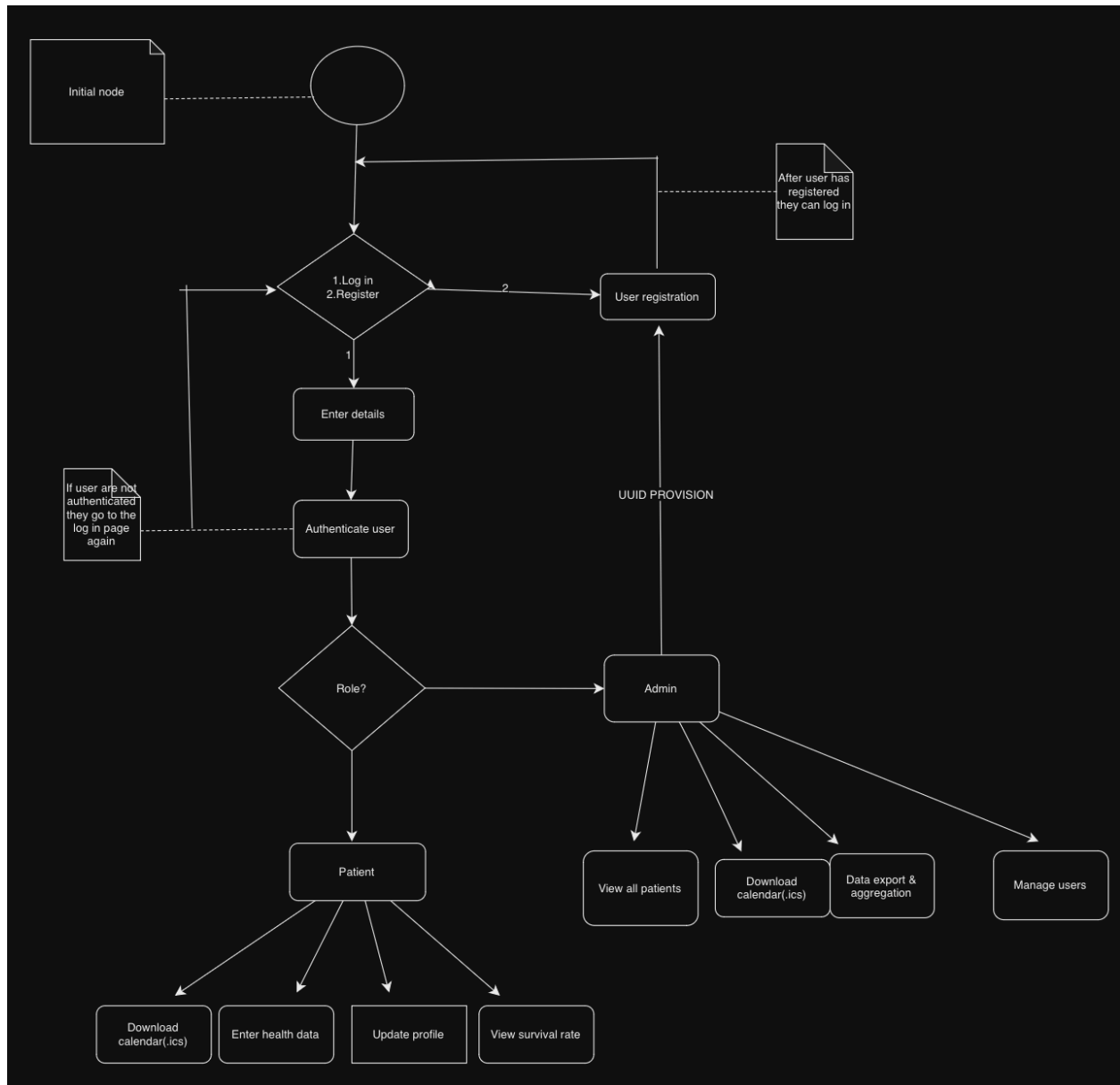


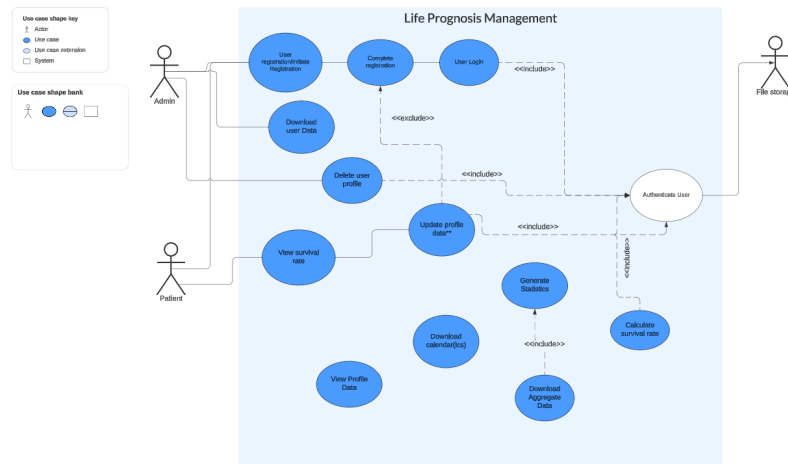
CLASS DIAGRAM



ACTIVITY DIAGRAM



USE CASE DIAGRAM



Use Case Descriptions: User registration

| | |
|---------------------------------|--|
| Use Case Name | User registration |
| Related requirements | The life prognosis management tool should allow the admin user initiate account registration for users |
| Goal in context | The admin creates a UUID(account initiation) for each new user(patient and other admins) |
| Preconditions | The system will generate a UUID(unique tracking ID) for each user and save in the file storage |
| Successful end condition | A new user account is initiated or created |
| Failed end condition | The user account is not created for the user |
| Primary actors | Admin User |
| Secondary actors | File storage |
| Trigger | The admin user asks the LPM tool to initiate a new user account |
| Main flow | <ol style="list-style-type: none"> 1. The admin user asks the system to initiate a new account creation for a user using their email 2. The admin enters the user email 3. The admin sets the role of the user 4. The system generates the UUID and saves it in the file storage |

| | |
|-------------------|--|
| | 5. A new user is created. |
| Extensions | <ol style="list-style-type: none"> 1. The user's UUID don't save in the file system 2. The new user account is not created |

Use Case Descriptions: Complete registration

| | |
|---------------------------------|--|
| Use Case Name | Complete registration |
| Related requirements | The life prognosis management tool should allow the users complete their account registration. |
| Goal in context | The user completes the profile details in the system |
| Preconditions | The system is limited to users with the UUID in the file storage. |
| Successful end condition | A new user account profile is completed |
| Failed end condition | The user account profile is not completed. |
| Primary actors | Admin and Patient |
| Secondary actors | File storage |
| Trigger | The user asks the LPM tool to complete their profile |
| Main flow | <ol style="list-style-type: none"> 1. The system helps the user to complete their profile 2. The user enters their email and UUID 3. The user completes their profile details 4. The system saves the user's details in the file storage |
| Extensions | <ol style="list-style-type: none"> 1. The user details don't save in the file system |

Use Case Descriptions: User Login

| | |
|---------------------------------|--|
| Use Case Name | User Login |
| Related requirements | The life prognosis management tool should allow the users to login into their account. |
| Goal in context | The user is able authenticate into the system |
| Preconditions | The system is limited to users with the UUID in the file storage. |
| Successful end condition | A user is able to authenticate and see their survival rate |

| | |
|-----------------------------|---|
| Failed end condition | The user is unable authenticate and view their survival rate |
| Primary actors | Admin and Patient |
| Secondary actors | File storage |
| Trigger | The user sends a request to the LPM tool to login into the system |
| Main flow | <ol style="list-style-type: none"> 1. The system helps the user to login into the system 2. The user enters their email and UUID 3. The system checks the details and authenticate into the system |
| Extensions | |

Use Case Descriptions: Calculate the survival rate

| | |
|---------------------------------|---|
| Use Case Name | Calculate the survival rate |
| Related requirements | The life prognosis management tool should allow the users to calculate their survival rate based on their data. |
| Goal in context | The system calculates the survival rate of the user using their profile data |
| Preconditions | <p>The system is limited to users with the UUID in the file storage.</p> <p>The system calculate the survival rate for users with complete profile data ***</p> |
| Successful end condition | A user sees their survival rate |
| Failed end condition | The user's survival rate is not calculated |
| Primary actors | Patient |
| Secondary actors | File storage |
| Trigger | The user enters their profile details into the system |
| Main flow | <ol style="list-style-type: none"> 1. The user enter their data into the system 2. The system computes the survival rate based on the user's data 3. The system displays the survival rate to the user |
| Extensions | |

Use Case Descriptions: Update user profile

| | |
|---------------------------------|---|
| Use Case Name | Update user profile |
| Related requirements | The LPM tool should allow users to update their profile data in the file storage. |
| Goal in context | The user is able to update their profile data in the file storage |
| Preconditions | The system updates for users with data in the file storage already |
| Successful end condition | The system changes the user's details in the file storage |
| Failed end condition | The system fails to update the details in the file system |
| Primary actors | Patient |
| Secondary actors | File Storage |
| Trigger | The user sends a request to the system to change their data. |
| Main flow | <ol style="list-style-type: none"> 1. The user enters their credentials to login 2. The system verify/validate the credentials to authenticate the user 3. The system confirm the details and updates the file storage accordingly |
| Extensions | |

Use Case Descriptions: View Profile Data

| | |
|---------------------------------|---|
| Use Case Name | View Profile Data |
| Related requirements | The LPM tool should allow users to view profile details in the file storage. |
| Goal in context | The user is able to view their details saved in the file storage |
| Preconditions | The user's details should be saved in the file storage already |
| Successful end condition | The system displays the user's details from the file storage |
| Failed end condition | The system fails to display the details in the file system |
| Primary actors | Patient |
| Secondary actors | File Storage |
| Trigger | The user sends a request to the system to view their data. |
| Main flow | <ol style="list-style-type: none"> 1. The user enters their credentials to login |

| | |
|-------------------|--|
| | <ol style="list-style-type: none"> 2. The system verify/validate the credentials to authenticate the user 3. The system retrieve their data and display it |
| Extensions | |

Use Case Descriptions: Delete User Profile

| | |
|---------------------------------|---|
| Use Case Name | Delete User Profile |
| Related requirements | The LPM tool should allow admins to remove a user profile from the file storage. |
| Goal in context | The admin is able to remove a user profile saved in the file storage |
| Preconditions | Only an authenticated admin can remove a user profile |
| Successful end condition | A user's profile is removed from the file storage |
| Failed end condition | The user's profile remain saved in the file storage |
| Primary actors | Admin |
| Secondary actors | File Storage |
| Trigger | The admin sends a request to the system to remove a user profile. |
| Main flow | <ol style="list-style-type: none"> 1. The admin enters their credentials to login 2. The system verify/validate the credentials to authenticate the admin 3. The admin sends a request to the system to remove a user profile from the file storage. |
| Extensions | |

Use Case Descriptions: Download user Data

| | |
|---------------------------------|---|
| Use Case Name | Download user Data |
| Related requirements | The LPM tool should allow admins to download the user list from the file storage. |
| Goal in context | The admin is able to download a file containing the users in the storage |
| Preconditions | |
| Successful end condition | A file containing the users is downloaded on the admin's file system |

| | |
|-----------------------------|--|
| Failed end condition | No file is downloaded on the admin's device |
| Primary actors | Admin |
| Secondary actors | File Storage |
| Trigger | The admin sends a request to the system to download all the users' data in a file. |
| Main flow | <ol style="list-style-type: none"> 1. The admin enters their credentials to login 2. The system verify/validate the credentials to authenticate the admin 3. The admin sends a request to the system to download the user data in the storage |
| Extensions | |

Use Case Descriptions: Download calendar(ics)

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|---------------------------------|--|
| Use Case Name | Download calendar(ics) |
| Related requirements | The LPM tool should allow all users to export a calendar schedule file(ics) of their treatment schedule. |
| Goal in context | The user is able to download a calendar schedule file on the device. |
| Preconditions | |
| Successful end condition | A calendar file containing the users on the admin's file system |
| Failed end condition | No file is downloaded on the admin's device |
| Primary actors | Admin |
| Secondary actors | File Storage |
| Trigger | The admin sends a request to the system to download all the users' data in a file. |
| Main flow | <ol style="list-style-type: none"> 1. The admin enters their credentials to login 2. The system verify/validate the credentials to authenticate the admin 3. The admin sends a request to the system to download the calendar file from their system. |
| Extensions | |

Use Case Descriptions: Generate Statistics

| | |
|---------------------------------|---|
| Use Case Name | Generate Statistics |
| Related requirements | The LPM tool should allow admins to generate statistical data from the user details in the storage. |
| Goal in context | The admin is able to compute the statistical values from the user details in the file storage. |
| Preconditions | |
| Successful end condition | The system correctly aggregate the user data in the storage |
| Failed end condition | The system fails to aggregate the statistical values for the data. |
| Primary actors | Admin |
| Secondary actors | File Storage |
| Trigger | The admin sends a request to the system to aggregate or compute statistical values from the dataset in the storage. |
| Main flow | <ol style="list-style-type: none">1. The admin enters their credentials to login2. The system verify the credentials to authenticate the admin3. The admin sends a request to the system to compute statistical values or aggregate the data in the file storage. |
| Extensions | The system fails to aggregate the data correctly. |

Use Case Descriptions: Download Aggregate Data

| | |
|---------------------------------|--|
| Use Case Name | Download Aggregate Data |
| Related requirements | The LPM tool should enable admins to export the computed statistical values onto their device. |
| Goal in context | The admin is able to download the statistical values calculated onto their device. |
| Preconditions | |
| Successful end condition | The system exports the aggregate the user data in the storage |

| | |
|-----------------------------|---|
| Failed end condition | The system fails to aggregate the statistical values for the data correctly. |
| Primary actors | Admin |
| Secondary actors | File Storage |
| Trigger | The admin sends a request to the system to export the aggregated or compute statistical values onto their devices. |
| Main flow | <ol style="list-style-type: none"> 4. The admin enters their credentials to login 5. The system verify the credentials to authenticate the admin 6. The admin sends a request to the system to compute statistical values or aggregate the data in the file storage. |
| Extensions | The system fails to aggregate the data correctly. |

IMPLEMENTATION OF TEXT FILES

User_store.txt - Contains details of registered users separated by a comma.