**Identified Process**

**Initiation process**

As you are aware ABC CINEMA is a site which enables you to book seats to watch movies in cinemas and enjoy the cinematic experience. Some of the objectives, stakeholders and high level requirements of project are stated below.

**Project Objectives**

* Enable users to conveniently buy a ticket booking a seat to enjoy a movie as most fascinating time of their life.
* Enable online payment for the tickets and provide a better customer satisfaction.
* Attract more customers to the cinema center making the seat reservation digital.
* Manage the seat-booking digitally and avoid the errors caused by manually handling the process.
* Achieve sustainability goal of “significantly decrease the amount of paper used by transitioning to digital alternatives whenever possible, promoting double-sided printing, and maximizing the use of recycled paper when printing is necessary” by using the digital systems.

**Stakeholders of Business**

1. Customers
2. Managers
3. Staff
4. Owners
5. Public

**High Level Requirements**

1. **User Registration and Authentication.**

Users should be able to successfully log into the system after creating an account for each user. They should be authenticated before log into the system.

* User registration and login.
* Role-based access.
* Secure Authentication.

1. **Movie selection, seat selection and payment**

Users should be able to select a movie according to their preference and select desired number of seats if they are not pre-booked and select a date and time in their convenience. Do the payment at their convenience using a convenient payment option

* Display movie details and select a movie
* Display seat location, price and able to select seat, date and time.
* Do the payment easily using desired payment option.

1. **User feedback and admin.**

Users should be able to provide feedbacks about the cinema based on their experience. A system administrator should be able to manage the system and change it’s content.

* Users have to be able to add their feedbacks.
* Admin dashboard to view statistics and pages to view feedbacks.

**Planning Process**

Gantt chart for the project

A screenshot of a computer

Description automatically generated

Through the agile development methodology, we have planned our work for four sprints. Work distribution can be displayed as follows.

Sprint 1

|  |
| --- |
| * [Create \*Login-Register Page\* & \*Movies Page\*](https://github.com/DilshanIBY/ABC_Cinema/issues/9) |
| * [Create \*User Management\* & \*Movies Management\* Models](https://github.com/DilshanIBY/ABC_Cinema/issues/10) |
| * [Create \*Reservations Page\*](https://github.com/DilshanIBY/ABC_Cinema/issues/11) |
| * [Create \*Contact Us Page\* & \*Feedback Page\*](https://github.com/DilshanIBY/ABC_Cinema/issues/13) |
| * [Create \*Feedback Management\* & \*Notification Management\* Models](https://github.com/DilshanIBY/ABC_Cinema/issues/14) |
| * [Create \*Home Page\* & \*Admin Dashboard\*](https://github.com/DilshanIBY/ABC_Cinema/issues/7) |
| * [Set up \*Database Connection\*](https://github.com/DilshanIBY/ABC_Cinema/issues/8) |
| * [Create \*Reservation Management\* & \*Payment Management\* Models](https://github.com/DilshanIBY/ABC_Cinema/issues/12) |

Sprint 2

|  |
| --- |
| * [Create \*Chat Bot\* UI](https://github.com/DilshanIBY/ABC_Cinema/issues/15) |
| * [Make \*Home Page\* & \*Admin Dashboard\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/16) |
| * [Create \*Profile Page\* & \*Movies Section\* in Home Page](https://github.com/DilshanIBY/ABC_Cinema/issues/17) |
| * [Make \*Login-Register Page\* & \*Movies Page\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/18) |
| * [Create \*Feedbacks Section\* & \*Inquiries Section\* in Admin Page](https://github.com/DilshanIBY/ABC_Cinema/issues/21) |
| * [Make \*Contact Us Page\* & \*Feedback Page\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/22) |
| * Make \*Reservations Page\* responsive |

Sprint 3

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| --- |
| * [Report Work + Create \*Reservations Section\* & \*Payments Section\* in Admin Page](https://github.com/DilshanIBY/ABC_Cinema/issues/27) |
| * [Report Work + Integrate \*AI Chat Bot Backend\*](https://github.com/DilshanIBY/ABC_Cinema/issues/24) |
| * [Report Work + Enhance \*Home Page\* & \*Admin Dashboard\*](https://github.com/DilshanIBY/ABC_Cinema/issues/23) |
|  |
| * [Create \*Payments Page\*](https://github.com/DilshanIBY/ABC_Cinema/issues/19) |
| * [Report Work + Make \*Feedbacks Section\* & \*Inquiries Section\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/30) |
| * [Report Work + Create \*Error Page\*](https://github.com/DilshanIBY/ABC_Cinema/issues/29) |
| * [Report Work + Make \*Payments Page\* responsive with security](https://github.com/DilshanIBY/ABC_Cinema/issues/28) |
| * [Report Work + Create \*Movies Section\* & \*Users Section\* in Admin Page](https://github.com/DilshanIBY/ABC_Cinema/issues/25) |
| * [Report Work + Make \*Profile Page\* & \*Movies Section\* in Home Page responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/26) |

Sprint 4

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| --- |
| * [Final Testing & Screenshots](https://github.com/DilshanIBY/ABC_Cinema/issues/31) |
| * [Finalize PRESENTATION + Finalize \*Home Page\* & \*Admin Dashboard\* responsiveness](https://github.com/DilshanIBY/ABC_Cinema/issues/32) |
| * [Finalize REPORT + Final Testing & Screenshots](https://github.com/DilshanIBY/ABC_Cinema/issues/33) |
| * [Make \*Movies Section\* & \*Users Section\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/34) |
| * [Final Testing & Screenshots](https://github.com/DilshanIBY/ABC_Cinema/issues/35) |
| * [Make \*Reservations Section\* & \*Payments Section\* responsive](https://github.com/DilshanIBY/ABC_Cinema/issues/36) |
| * [Final Testing & Screenshots](https://github.com/DilshanIBY/ABC_Cinema/issues/37) |
| * [Make Notifications responsive on \*Reservations & Cancellings\*](https://github.com/DilshanIBY/ABC_Cinema/issues/38) |

**Execution Process**

The execution process for the ABC Cinema begins with gathering requirements from different stakeholders in the project such as customers, managers, staff and the owners. First we have divided our team into four sub-teams and there are members who are doing UI and backend in each team. We have divided our entire task into four sprints with each sprint extends upto one week. Tasks have been divided in order that each one is independent of another task. UI team has created the home page, movie page, reservation page, login page, etc. Also finished the tasks tied to the deadlines. Backend team has also created reservationController.java, paymentController.java, MovieController.java, UserController.java and others. Then finished the work before the deadlines. Finally, we have tested the application with unit testing, integrated testing and user acceptance testing to ensure that the system works properly. Also, User feedbacks are collected to regularly update the system.