

# Airline Seat Selection, Boarding pass issuance and Aircraft boarding

## PROJECT

*19CSE314 – Software Engineering*



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# ABSTRACT

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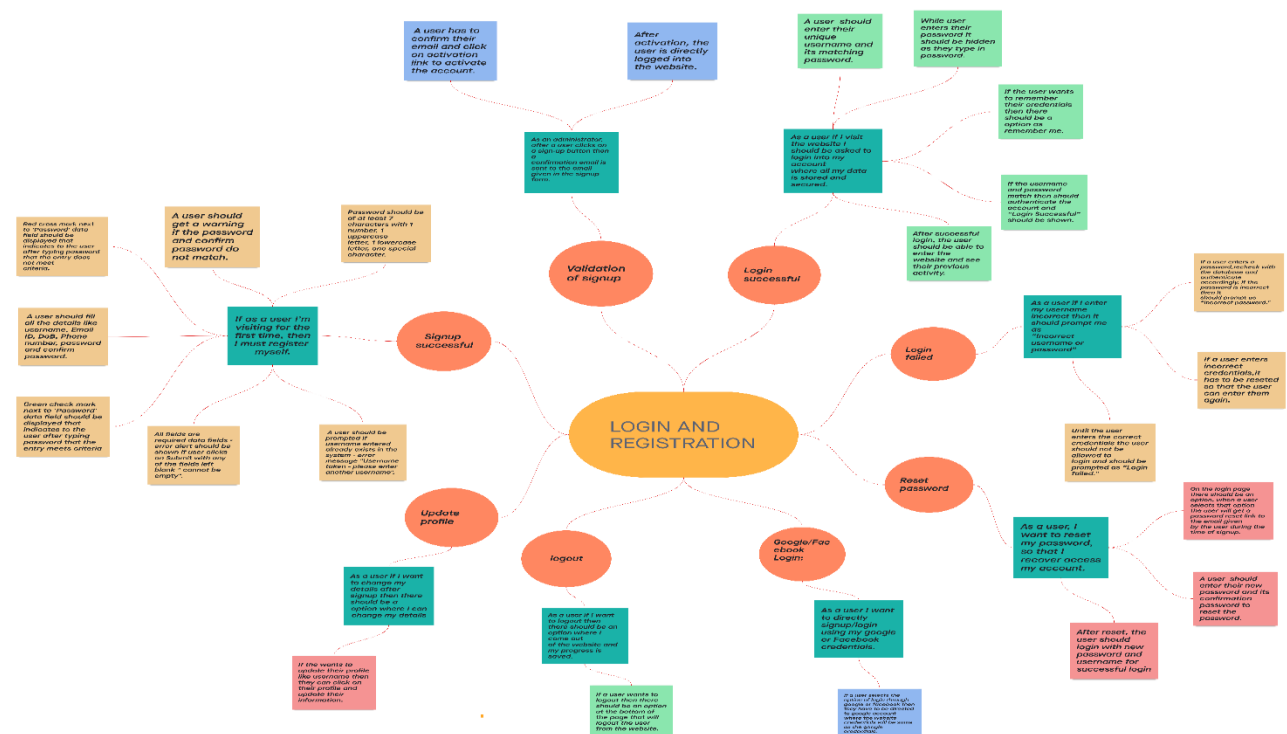
The objective of the project is to design an Airline Reservation System application that enables the passenger to search and book flight tickets which include boarding pass issuance, seat allocation. A reliable and predictable management system with respective operations is essential for aircraft trajectories. The airport management system is an all-in-one application for the complete flight experience, from booking a ticket to seat allocation. The application enables the users to get details regarding the timings of their flight, the boarding date, and also regarding the in-airport amenities such as restaurants, shopping centres, etc. This software has two parts. The first is the user part and the administrator part. The user part is used as a front end and the administrator is the back end. The administrator is used by the airline authority. It will allow the customers to access the database and allow new customers to sign up for online access. The system allows the airline passenger to search for flights that are available between the two travel cities, namely the “Departure city” and “Arrival city” for particular departure and arrival dates. The system displays all the flight’s details such as flight no, name, price and duration of the journey, etc. After searching the system display list of available flights and allows the customer to choose a particular flight. Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise, it asks the user to choose another flight. To book a flight the system asks the customer to enter his details such as name, address, city, state, credit card number, and contact number. Then it checks the validity of the card and book the flight and update the airline database and user database. The system also allows the customer to cancel his/her reservation if any problem occurs. The main purpose of this software is to reduce the manual errors involved in the airline reservation process and make it convenient for the customers to book the flights when they require such that they can utilize this software to make reservations, modify reservations or cancel a particular reservation.

## 1. Epic: *User account registration and login*

## User Stories:

1. As a user, I would like to register myself when try to login for the first time.
2. As a user, If any of my credentials are entered wrong then it should be shown as login failed
3. As a user I want to update my details, after login.
4. As a user I want to directly signup/login using my google or Facebook credentials.
5. As a user if I want to logout then there should be an option where I come out of the website and my progress is saved.
6. As a user if I want to change my details after signup then there should be a option where I can change my details like username.

### Chart:



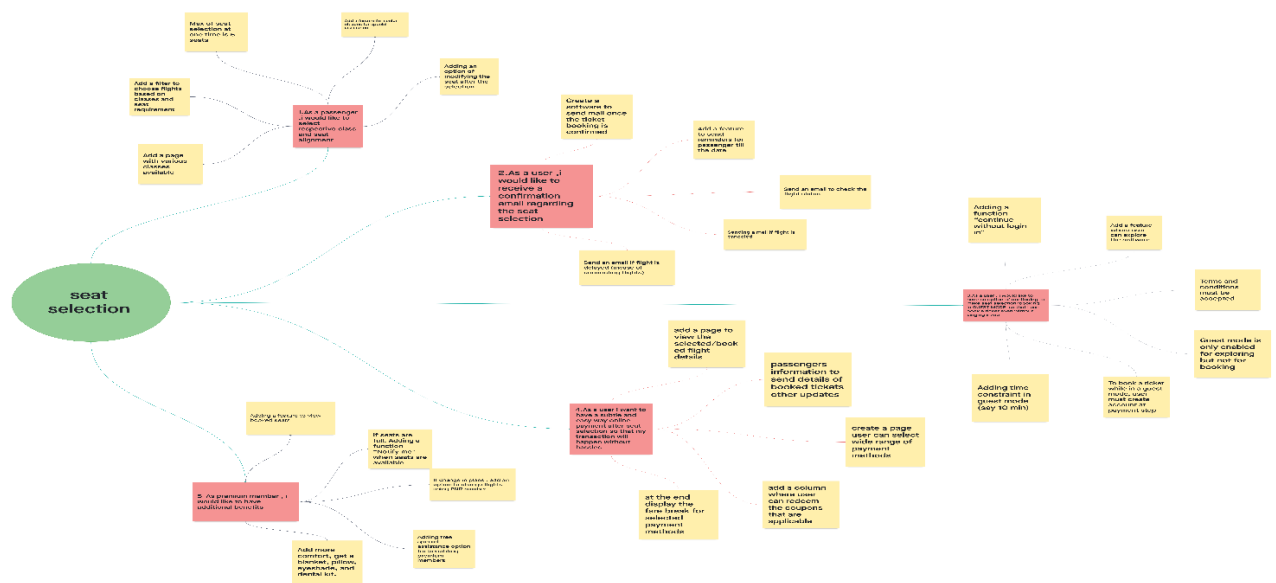


### 3. Epic: *seat selection*

## User Stories:

1. As a passenger, I would like to select respective class and seat alignment
2. As a user, I would like to receive a confirmation email regarding the seat selection
3. As a user, I would like to have an option of continuing to make seat selection/booking in GUEST MODE so that I can book a ticket even without signing in/up
4. As a user I want to have a subtle and easy way online payment after seat selection so that my transaction will happen without hassles
5. As premium member, I would like to have additional benefits

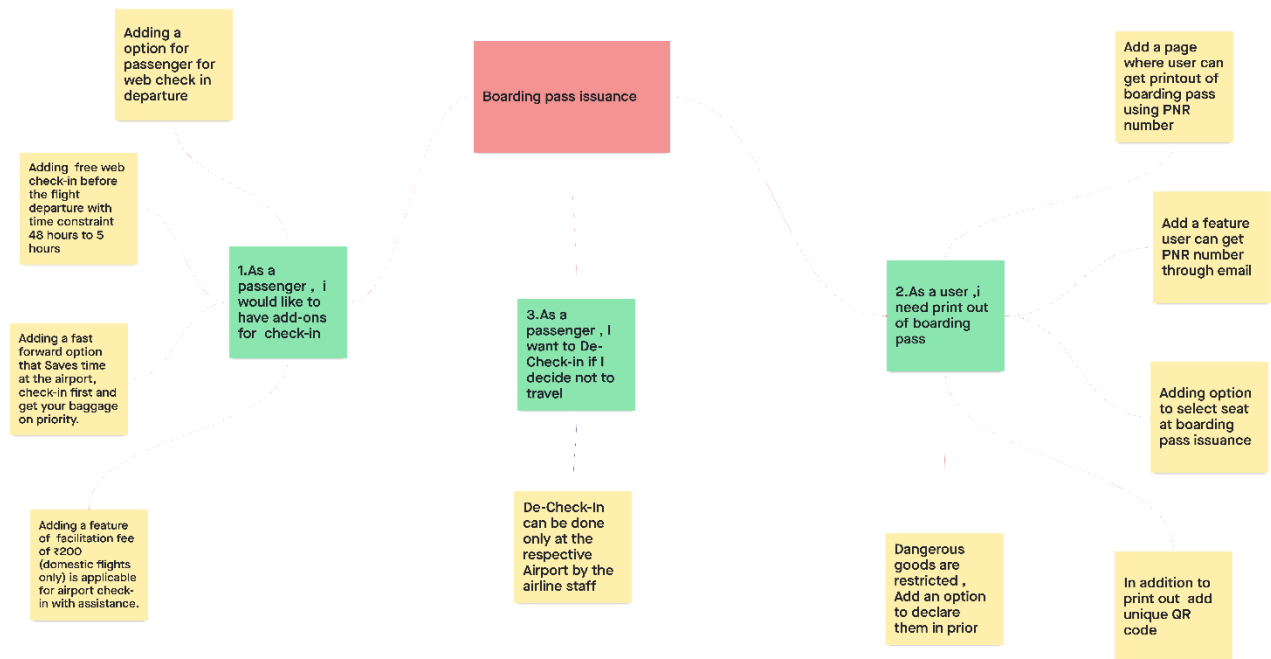
### Chart:



#### 4.Epic: *Boarding pass issuance*

- 1.As a passenger, I would like to have add-ons for check-in
- 2.As a user, I need print out of boarding pass
- 3.As a passenger, I want to De-Check-in if I decide not to travel

#### Chart:



#### 5. Epic: *Select and order*

#### User stories:

1. As a user, I would like to see how this food ordering website is useful for passengers inside the plane.
2. As a User, I would like to view the various foods provided in the flight, so that I can order them accordingly.
3. User needs to find what are all types of people, this food ordering web took into consideration.
4. User need to know how the payment process is done for the food ordering.
5. User needs to know the quality of the food and for every item rating given by the users.

#### Chart:

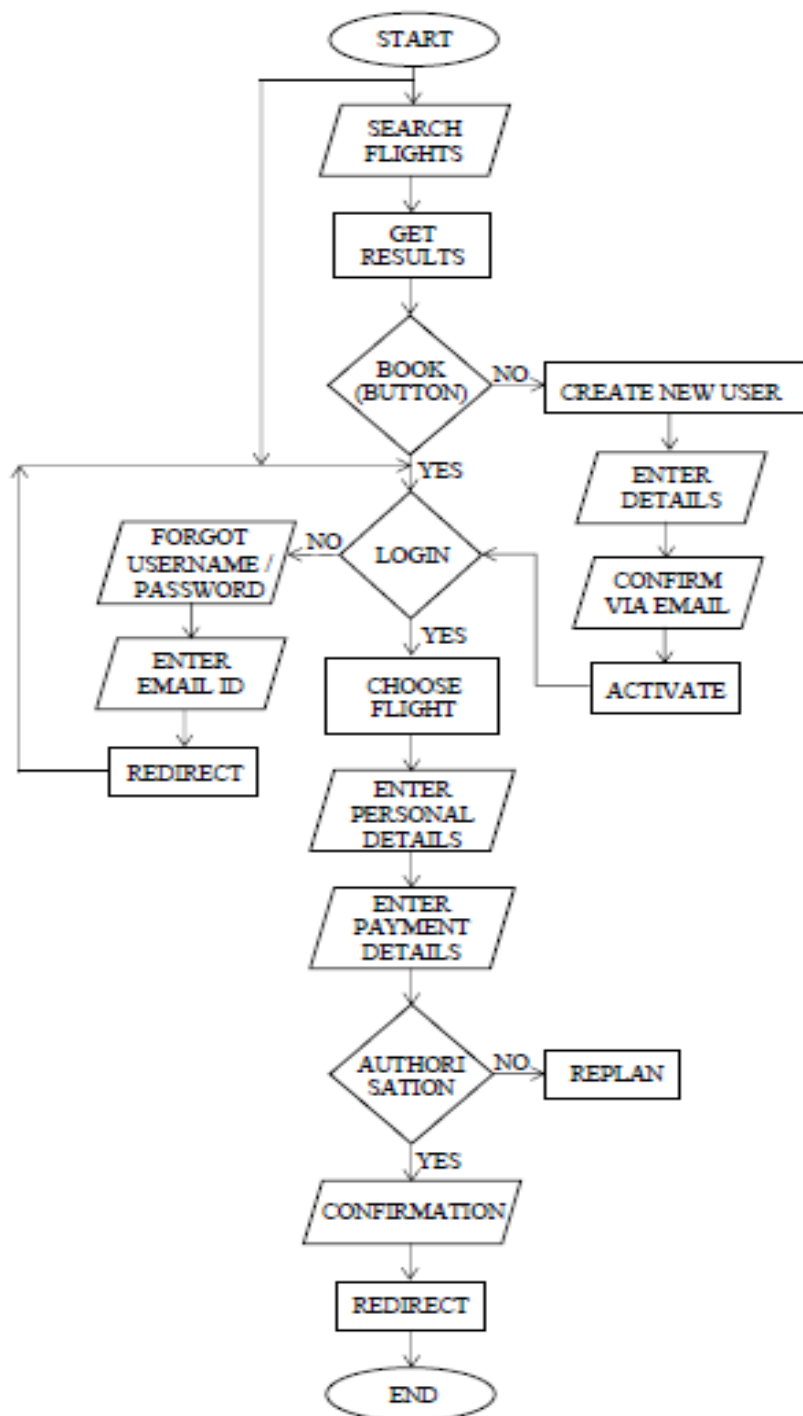






## Use case/DFD diagrams

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## Scrum activities – Sprint 1 Backlog

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### Epic 1 (Estimate T-shirt size: 6)

#### Story 1 (Estimate Story Points: 23)

#### User account registration and login:

User Story	Member	Priority	Estimate
As a user, I would like to register myself when try to login for the first time.	S.Shantan Reddy	High	5
As a user, I would like to login into the account.	S.Shantan Reddy	Medium	4
As a user, If any of my credentials are entered wrong then it should be shown as login failed	S.Shantan Reddy	Medium	4
As a user if I want to logout then there should be an option.	Rohit P M	Low	2
As an Admin I want to have access to all the data from the database, So that I can add the data accordingly.	P.Koushik	Medium	4
As an Admin I want to update and delete the flight details and passenger details.	P.Koushik	Medium	4

## **Epic 2 (Estimate T-shirt size: 6)**

### **Story 2 (Estimate Story Points: 20)**

#### **Discover & Filter:**

<b>Task</b>	<b>Member</b>	<b>Priority</b>	<b>Estimate</b>
As a user, I want to view flights available for journey on respective date so that I can select accordingly.	R Abhinav	High	5
As a User, I would like to view the flights in order of lowest to highest fares, so that I can choose my flight accordingly.	R Abhinav	Medium	4
As a User, I would like to filter my search results on the basis of Airlines, Departure time and No. of stops, so that I can narrow down my options to pick the best one.	P Koushik	Medium	3
As a User, I would like to filter out to view multi-city flights.	Rohit P M	Medium	2
As a User, I would like to filter out to view all non-stop flights only.	R Abhinav	Medium	4
As a Stakeholder, we would like to collect passenger details of users booking through "Guest Mode" so that we can establish contact with them in the future	Rohit P M	Medium	2

**Epic 3 (Estimate T-shirt size: 3)****Story 2 (Estimate Story Points: 13)****Seat Selection**

<b>Task</b>	<b>Member</b>	<b>Priority</b>	<b>Estimate</b>
As a passenger, I would like to select respective class and seat alignment	S Likhitha	Medium	3
As a user, I would like have a search history so that I can view my previous bookings	S Likhitha	High	5
As a user, i would like to wish list option so that i can add my bookings to cart	S Likhitha	High	5

**Epic 4 (Estimate T-shirt size: 1)****Story 2 (Estimate Story Points: 5)****Ancillary Booking**

<b>Task</b>	<b>Member</b>	<b>Priority</b>	<b>Estimate</b>
As a user, I would like to add additional services for my journey	Rohit P M	High	5

**STANDUP NOTES 1 on WEEK 1:**

Name	Question	Answer
SHANTHAN	What did you do yesterday?	----
	What will you do today?	Discuss Epic ,User stories
	Are there any impediments in your way?	None
ABHINAV	What did you do yesterday?	----
	What will you do today?	Discuss Epic ,User stories
	Are there any impediments in your way?	None
LIKHITHA	What did you do yesterday?	----
	What will you do today?	Discuss Epic ,User stories
	Are there any impediments in your way?	None
KOUSHIK	What did you do yesterday?	----
	What will you do today?	Discuss Epic ,User stories
	Are there any impediments in your way?	None
ROHIT	What did you do yesterday?	----
	What will you do today?	Discuss Epic ,User stories

**STANDUP NOTES 2 on WEEK 2**

Name	Question	Answer
SHANTHAN	What did you do yesterday?	Improving on user stories
	What will you do today?	Installation and configuration of tools
	Are there any impediments in your way?	Few paths related errors
ABHINAV	What did you do yesterday?	Improving on user stories
	What will you do today?	Installation and configuration of tools
	Are there any impediments in your way?	Few paths related errors
LIKHITHA	What did you do yesterday?	Improving on user stories
	What will you do today?	Installation and configuration of tools
	Are there any impediments in your way?	Few paths related errors
KOUSHIK	What did you do yesterday?	Improving on user stories
	What will you do today?	Installation and configuration of tools
	Are there any impediments in your way?	Few paths related errors
ROHIT	What did you do yesterday?	Improving on user stories
	What will you do today?	Installation and configuration of tools
	Are there any impediments in your way?	Few paths related errors

**STANDUP NOTES 3 on WEEK 3**

Name	Question	Answer
SHANTHAN	What did you do yesterday?	Worked on register page
	What will you do today?	Improving the UI
	Are there any impediments in your way?	None
ABHINAV	What did you do yesterday?	Worked on Home Page
	What will you do today?	Implementing features for flight search
	Are there any impediments in your way?	Connection issues
LIKHITHA	What did you do yesterday?	Worked on search flights page
	What will you do today?	Improving on UI
	Are there any impediments in your way?	Issues with reset button
KOUSHIK	What did you do yesterday?	Worked on admin page
	What will you do today?	Improving on UI
	Are there any impediments in your way?	None
ROHIT	What did you do yesterday?	Installation and configuring complete.
	What will you do today?	Working on backend and PHP connections.

**STANDUP NOTES 4 on WEEK 4**

Name	Question	Answer
SHANTHAN	What did you do yesterday?	completed register page
	What will you do today?	Create login page
	Are there any impediments in your way?	None
ABHINAV	What did you do yesterday?	Worked on Home Page
	What will you do today?	Work on flights data
	Are there any impediments in your way?	None
LIKHITHA	What did you do yesterday?	Completed till Reset button
	What will you do today?	Create a page for search history
	Are there any impediments in your way?	None
KOUSHIK	What did you do yesterday?	Adding data to admin page is accomplished
	What will you do today?	Work on updating data on admin page
	Are there any impediments in your way?	None
ROHIT	What did you do yesterday?	Done with backend connections.
	What will you do today?	Given my SQL database connections
	Are there any impediments in your way?	None

## STANDUP NOTES 5 on WEEK 5

SHANTHAN	What did you do yesterday?	Register page and login page with validation completed
	What will you do today?	Need to fix few glitches
	Are there any impediments in your way?	None
ABHINAV	What did you do yesterday?	Home page and flight data to discover and filter is done
	What will you do today?	Need to rectify few issues
	Are there any impediments in your way?	CSS issues
LIKHITHA	What did you do yesterday?	Search history page completed
	What will you do today?	Need to verify issues with booking page
	Are there any impediments in your way?	None
KOUSHIK	What did you do yesterday?	Add, update data on admin page is completed
	What will you do today?	Delete is not working properly, need to work on it
	Are there any impediments in your way?	Data is not cleared from the backend
ROHIT	What did you do yesterday?	Done with My SQL connections.
	What will you do today?	Worked on Ancillary booking

## Implementation

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### Tools:

1. PhpStorm – Editor
2. XAMPP – Web Server
3. Phpmyadmin - **MySQL Database Management**

### Languages Used:

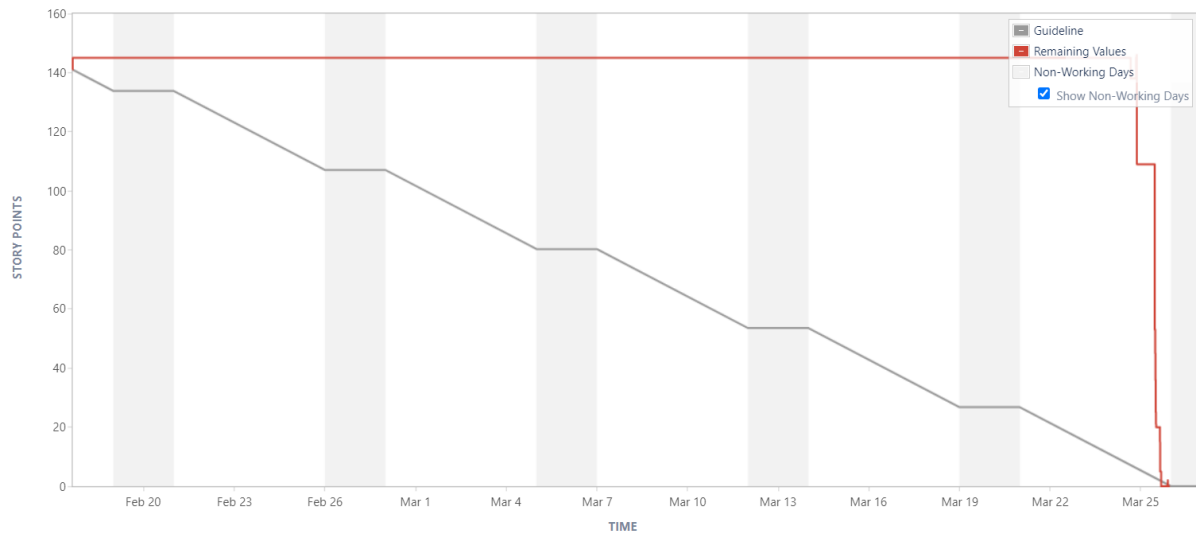
1. HTML/CSS/JS
2. PHP
3. SQL

**Project Link:** <https://github.com/ravellaabhinav/SWE---Project>



# Reports:

## Burndown Chart:



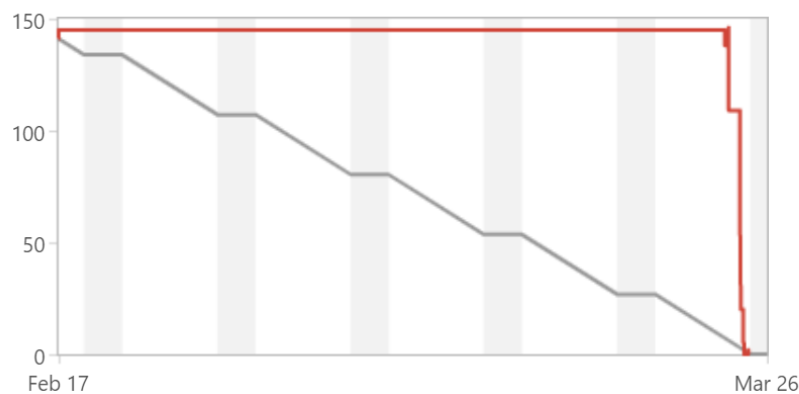
## Sprint Report:

### Sprint Report [Switch report](#) ▼

CSSBPAAA Sprint 1

*Active Sprint*, started by [Ravella Abhinav](#) 17/Feb/22 3:41 PM - 26/Mar/22 9:00 PM [Linked pages](#)


Our goal is to gather all flight details and create a user friendly page to view, book tickets



# Screenshots:

 Home

## Sign Up

* Username:	<input type="text" value="only alphabetical or numeric characters"/>	<a href="#">Check Availability</a>
* Password:	<input type="text" value="No special characters, at least one letter, one capital letter, one number"/>	
* First Name:	<input type="text" value="Enter Your First Name"/>	
Middle Name:	<input type="text" value="Enter Your Middle Name"/>	
* Last Name:	<input type="text" value="Enter Your Last Name"/>	
* Email:	<input type="text" value="Enter Your Email"/>	
Gender:	<input type="radio"/> Female <input type="radio"/> Male	
Birthday:	<input type="text" value="dd-mm-yyyy"/> 	
* Phone:	<input type="text" value="Enter Your Phone Number"/>	
<a href="#">Sign Up</a>		

 Home

We specialize in your air plan!

## Welcome , please sign-in.

We want your visit to be fast and easy. Please enter your username and password to get started. If you need to set up your profile, please [register now](#).

Your username:

Your password:

☐ Remember my username when I return

[Sign In](#)

## Search Flights

Choose your flight option

One-way

Round-trip

Search all flights

From:

City or Code

To:

City or Code

Depart:

dd-mm-yyyy



Class:

Economy



☒ Non-Stop ☐ 1 Stop

Submit

Reset

Add

Update

Delete

Flight No.

Airplane ID

details

Departure Airport

details

Departure Time

Arrival Airport

details

Arrival Time

Economy Capacity

Economy Price

Business Capacity

Business Price

submit

Github Link: <https://github.com/ravellaabhinav/SWE---Project>