

Project Planning Phase

Project Planning (Product Backlog, Sprint Planning, Story Points)

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| Date | 12 April 2025 |
| Team ID | SWTID1742751842 |
| Project Name | ShopEZ: One-Stop Shop for Online Purchases |
| Maximum Marks | 5 Marks |

Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|--------------|
| Sprint-1 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Riya |
| Sprint-1 | Registration | USN-2 | As a user, I will receive a confirmation email once I have registered for the application. | 1 | High | Aastha |
| Sprint-1 | Registration | USN-3 | As a user, I can register through Gmail. | 2 | Medium | Chithrarth |
| Sprint-1 | Login | USN-4 | As a user, I can log in with email and password. | 1 | High | Shubhi |
| Sprint-2 | Registration | USN-5 | As a user, I can register through Facebook. | 2 | Low | Aastha |

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|-----------------|----------------------|--------|--|---|--------|------------|
| Sprint-2 | Login | USN-6 | As a user, I can reset my password via email. | 2 | Medium | Riya |
| Sprint-2 | Movie Listing | USN-7 | As a user, I can view movie listings on the homepage. | 3 | High | Chithrarth |
| Sprint-3 | Movie Browsing | USN-8 | As a user, I can filter movies by genre or language. | 2 | High | Shubhi |
| Sprint-3 | Movie Browsing | USN-9 | As a user, I can view detailed information (cast, rating, duration) about a movie. | 3 | High | Aastha |
| Sprint-3 | Seat Selection | USN-10 | As a user, I can select seats from an interactive seat map. | 3 | High | Riya |
| Sprint-3 | Cart | USN-11 | As a user, I can remove selected seats before booking. | 2 | Medium | Chithrarth |
| Sprint-4 | Checkout | USN-12 | As a user, I can review my booking summary before payment. | 3 | High | Aastha |
| Sprint-4 | Payment | USN-13 | As a user, I can make a payment using UPI/Credit Card. | 4 | High | Shubhi |
| Sprint-4 | Booking Confirmation | USN-14 | As a user, I will receive a ticket confirmation email after booking. | 2 | Medium | Riya |
| Sprint-4 | Booking History | USN-15 | As a user, I can track and view my past bookings in my profile. | 3 | Medium | Chithrarth |

Project Tracker, Velocity & Burndown Chart:

1. **Project Name:** MERN Movie Ticket Booking Application
2. **Sprint Duration:** 10 days
3. **Start Date:** April 20, 2025
4. **Total Number of Sprints:** 4
5. **Story Points per Sprint:** 20
6. **Total Story Points:** 80
7. **Assumed Team Velocity:** 20 story points per sprint (approx. 2 story points per day)
8. **Team Members:** Riya, Aastha, Chithrarth, Shubhi

Project Tracker Table

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|---|------------------------------|
| Sprint-1 | 20 | 10 Days | February 25, 2025 | March 6, 2025 | 15 | March 07, 2025 |
| Sprint-2 | 20 | 10 Days | March 07, 2025 | March 16,2025 | 20 | March 16, 2025 |
| Sprint-3 | 20 | 10 Days | March 17, 2025 | March 26, 2025 | 20 | March 27, 2025 |
| Sprint-4 | 20 | 10 Days | March 27, 2025 | April 05, 2025 | 10 | April 06, 2025 |

Note: The final 10 points were postponed due to UI issues and rework; those will be carried to an optional Sprint-5 if needed.

Velocity Calculation

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

1. Total Completed Story Points: 80
2. Total Duration: 40 days
3. Velocity per Sprint: 20 story points/sprint
4. Average Velocity per Day: $80 / 40 = 2$ story points/day

Burndown Chart:

| Date | Planned Points Remaining | Actual Points Remaining | Notes |
|-------------------|--------------------------|-------------------------|---|
| February 25, 2025 | 80 | 80 | Sprint 1 begins |
| March 06, 2025 | 60 | 68 | Registration module completed; movie search delayed |
| March 16, 2025 | 40 | 48 | Cart and payment integration faced minor issues |
| March 26, 2025 | 20 | 28 | Bug fixing in seat selection UI and checkout page |

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| April 05, 2025 | 0 | 10 | Final stories incomplete (admin panel, order tracking) |
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