**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

|  |  |
| --- | --- |
| Date | 26-05-2025 |
| Team ID | LTVIP2025TMID61039 |
| Project Name | Rental Home:Finding Your Perfect HomeQ21` |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

**Product Backlog & Sprint Schedule**

|  |  |  |
| --- | --- | --- |
| Epic | User Stories / Features | Estimation (Story Points) |
| User Management | **Register, login, logout** | **8** |
|  | **Forgot/reset password** | **5** |
|  | **Profile management (tenant/landlord)** | **7** |
| Property Listings | **Add rental property (landlord)** | **10** |
|  | **View property details** | **6** |
|  | **Search & filter properties** | **12** |
|  | **Upload photos/videos** | **8** |
| Booking & Communication | **Request/schedule property visits** | **10** |
|  | **Tenant-landlord chat/messaging** | **12** |
|  | **Booking approval/rejection workflow** | **8** |
| Payments & Lease | **Online rent payment & deposit** | **15** |
|  | **Generate receipts** | **6** |
|  | **Lease agreement upload/download** | **14** |
| Notifications & Admin | **Email/SMS/app notifications** | **8** |
|  | **Admin dashboard (manage users/properties)** | **12** |
|  | **Reports & analytics** | **10** |
| Testing & UAT | **End-to-end testing** | **8** |
|  | **Bug fixing** | **6** |
|  | **UAT feedback implementation** | **6** |

**Total = ~161 Story Points (~80 Person-Days)**

**📅 Sprint Schedule (2-Week Sprints)**

|  |  |  |
| --- | --- | --- |
| **Sprint** | **Deliverables (Major Features)** | **Estimation (Story Points)** |
| **Sprint 1** | **User registration, login/logout, forgot password, profile mgmt** | **20** |
| **Sprint 2** | **Add/view property, photo upload, property search & filter** | **28** |
| **Sprint 3** | **Schedule visits, chat/messaging, booking approval workflow** | **30** |
| **Sprint 4** | **Online payments, receipts, lease agreement mgmt** | **35** |
| **Sprint 5** | **Notifications, admin dashboard, reports** | **30** |
| **Sprint 6** | **End-to-end testing, bug fixing, UAT feedback** | **18** |

**✅ With a team of 4 developers + 1 QA, this would take about 12 weeks (6 sprints).**

**Project Tracker, Velocity & Burndown Chart**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | 6 Days | 1 May 2025 | 2 june 2025 | 20 | 2 june 2025 |
| **Sprint-2** | 20 | 6 Days | 3 May  2025 | 4 june 2025 | 20 | 4 june 2025 |
| **Sprint-3** | 20 | 6 Days | 5 May  2025 | 6 june 2025 | 20 | 6 june 2025 |
| **Sprint-4** | 20 | 6 Days | 7 May 2025 | 8 june 2025 | 20 | 8 june 2025 |

**VELOCITY:**

In project planning, particularly in Agile methodologies like Scrum, velocity is a key metric that measures the amount of work a team can complete in a single iteration, or "sprint". It helps teams understand their capacity and make predictions about future work.

Key aspects of velocity in project planning:

Measurement of output: Velocity quantifies the work completed by a team within a specific timeframe, often expressed in "story points".

Predictive tool: By tracking velocity over several sprints, teams can forecast how much work they can realistically complete in upcoming sprints, aiding in release planning and commitment setting.

Continuous improvement: Analyzing velocity trends can provide insights into team productivity, identify potential impediments, and inform adjustments to improve efficiency.

Calculation: While simple velocity can be calculated as "Total Story Points Completed / Number of Sprints," using a rolling average (e.g., a three-sprint rolling average) is often recommended for more stable and accurate predictions.

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

