**Project Planning Phase**

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

| Date | 30 July 2025 |
| --- | --- |
| Team ID | PNT2025TMID09555 |
| Project Name | The Roadmap Generator |
| Maximum Marks | 5 Marks |

## **📘 Project Planning Template**

### **✅ 1. Product Backlog (Features & Requirements)**

| **ID** | **Feature / Task** | **Priority** |
| --- | --- | --- |
| PB1 | User Input UI for skill entry | High |
| PB2 | Backend setup with Streamlit | High |
| PB3 | Integrate LLaMA2 using CTransformers | High |
| PB4 | Prompt creation engine for skill roadmap generation | High |
| PB5 | Fetch & display AI-generated roadmap | High |
| PB6 | Resource recommendation integration (free links) | Medium |
| PB7 | Styling and frontend polishing | Medium |
| PB8 | Save/Download roadmap feature | Low |
| PB9 | Deployment on Streamlit Cloud | High |
| PB10 | Model auto-download with setup.sh | High |
| PB11 | Documentation & README for GitHub | High |
| PB12 | Add progress tracker or milestone badges | Low |

### **✅ 2. Sprint Planning**

| **Sprint** | **Duration** | **Goal** |
| --- | --- | --- |
| Sprint 1 | 5 days | Core functionality: UI + AI Integration |
| Sprint 2 | 4 days | Polish UI, add features like download/save |
| Sprint 3 | 3 days | Deployment, testing, documentation |

### **✅ 3. User Stories + Story Points (Estimation)**

| **Story ID** | **As a...** | **I want to...** | **So that I can...** | **Story Points** |
| --- | --- | --- | --- | --- |
| US1 | user | enter a skill into a web form | get a personalized roadmap | 3 |
| US2 | system developer | use Streamlit to connect UI with backend | build the app quickly | 2 |
| US3 | system | send prompts to LLaMA2 via CTransformers | receive meaningful roadmap content | 5 |
| US4 | learner | view recommended free resources for learning | get started without searching manually | 3 |
| US5 | user | download my roadmap as a PDF | access it offline | 2 |
| US6 | developer | deploy app to Streamlit Cloud | make it accessible online | 3 |
| US7 | contributor | run setup.sh to get the model | avoid uploading large files manually | 2 |
| US8 | user | track which steps I've completed | stay organized while learning | 5 |

### **✅ Story Point Scale (Fibonacci-based)**

* **1** – Trivial task
* **2** – Small task
* **3** – Moderate complexity
* **5** – Complex logic or integration
* **8+** – Large / needs breaking down

### **✅ Team Roles (Suggested)**

| **Role** | **Responsibility** |
| --- | --- |
| Product Owner | Defines vision, backlog, and priority |
| Frontend Dev | Streamlit UI and interaction layer |
| Backend Dev | LLaMA2 integration, response logic |
| DevOps | Deployment, setup.sh, model mgmt |
| QA Tester | Bug testing, roadmap validation |