

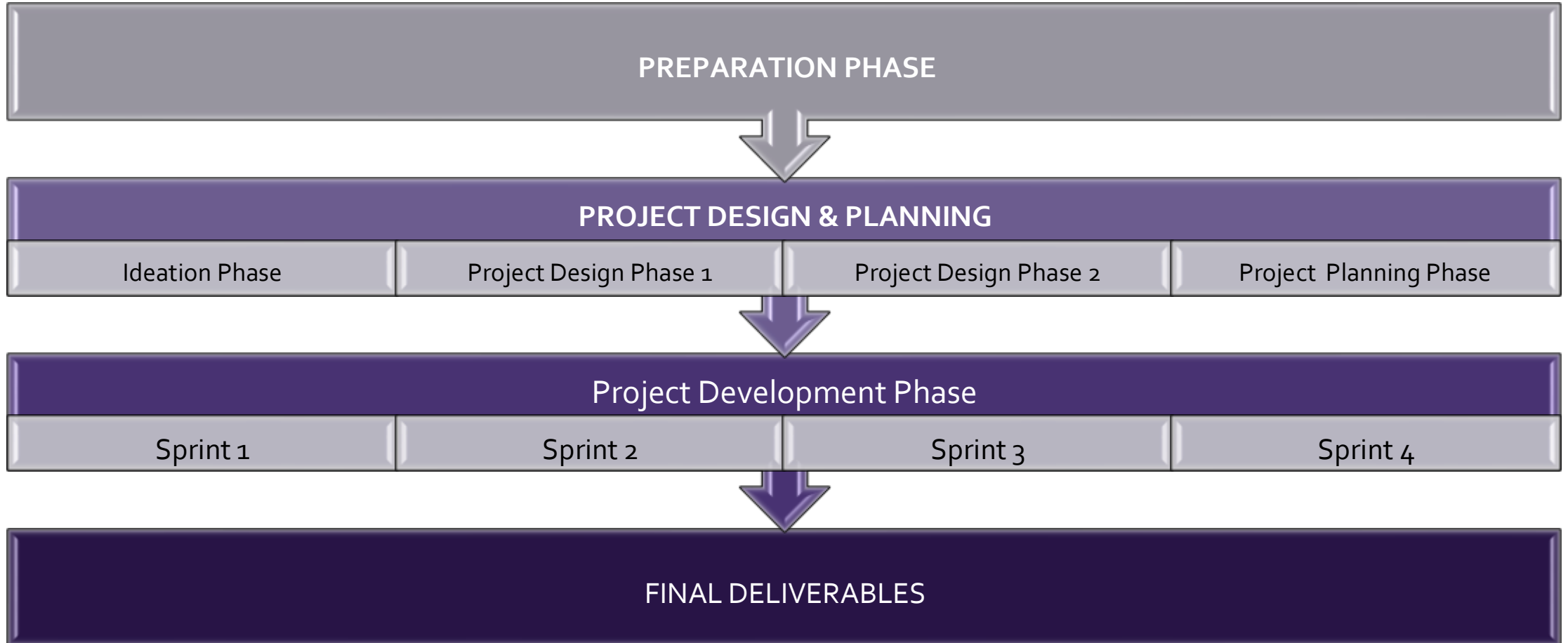
Gas Leakage Monitoring and Alerting System Using IoT

PROJECT PLANNING PHASE

Prepare Milestone and Activity List

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|--------------------|---------------------------------------|
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Project Milestones



ACTIVITY LIST

| Phase | Phase Description | Activity Number | Activity |
|-------|---|-----------------|---|
| 1 | Preparation Phase (Prerequisites, Registrations, Environment Set-up, etc.) | 1.1 | Access the resources (courses) & guided project workspace |
| | | 1.2 | Register on IBM Academic Initiative & Apply Feature code for IBM Cloud Credits |
| | | 1.3 | Create GitHub account & collaborate with Project Repository in project workspace |
| | | 1.4 | Set-up the Laptop / Computers based on the prerequisites for each technology track |
| 2 | Ideation Phase (Literature Survey, Empathize, Defining Problem Statement, Ideation) | 2.1 | Literature survey on the selected project & Information Gathering |
| | | 2.2 | Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements |
| | | 2.3 | List the ideas by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance |
| 3 | Project Design Phase -I (Proposed Solution, Problem-Solution Fit, Solution Architecture) | 3.1 | Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc. |
| | | 3.2 | Prepare problem - solution fit document & Solution Architecture |
| 4 | Project Design Phase -II (Requirement Analysis, Customer Journey, Data Flow Daigrams, Technology Architecture) | 4.1 | Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit) |
| | | 4.2 | Prepare the Functional Requirement Document & DataFlow Daigrams |
| | | 4.3 | Prepare Technology Architecture of the solution |
| 5 | Project Planning Phase (Milestones & Tasks, Sprint Schedules) | 5.1 | Prepare Milestone & Activity List, Sprint Delivery Plan |
| 6 | Project Development Phase (Coding & Solutioning, Acceptance Testing, Performance Testing) | 6.1 | Project Development - Delivery of Sprint-1 |
| | | 6.2 | Project Development - Delivery of Sprint-2 |
| | | 6.3 | Project Development - Delivery of Sprint-3 |
| | | 6.4 | Project Development - Delivery of Sprint-4 |

