

4. PROJECT PLANNING PHASE

4.1 Introduction

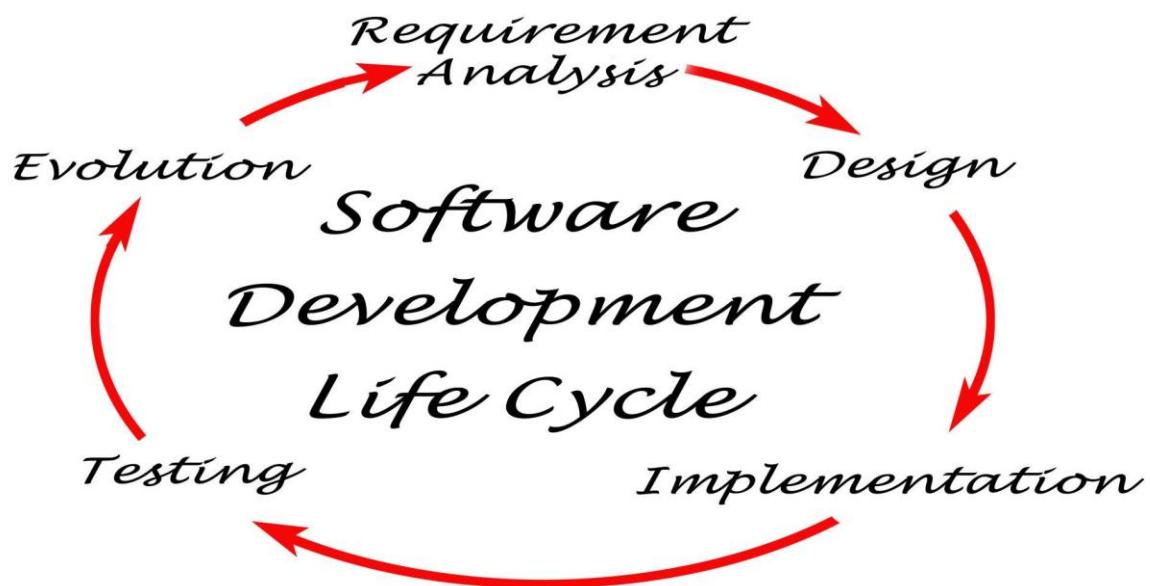
Project planning ensures smooth execution by defining:

- Timeline
 - Resources
 - Development stages
 - Risk management
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4.2 Development Methodology

The project follows a **Waterfall Model** approach:





1. Requirement Analysis – Collect and understand what the customer needs.

2. Design – Plan how the software will look and work.

3. Implementation – Write the code to build the software.

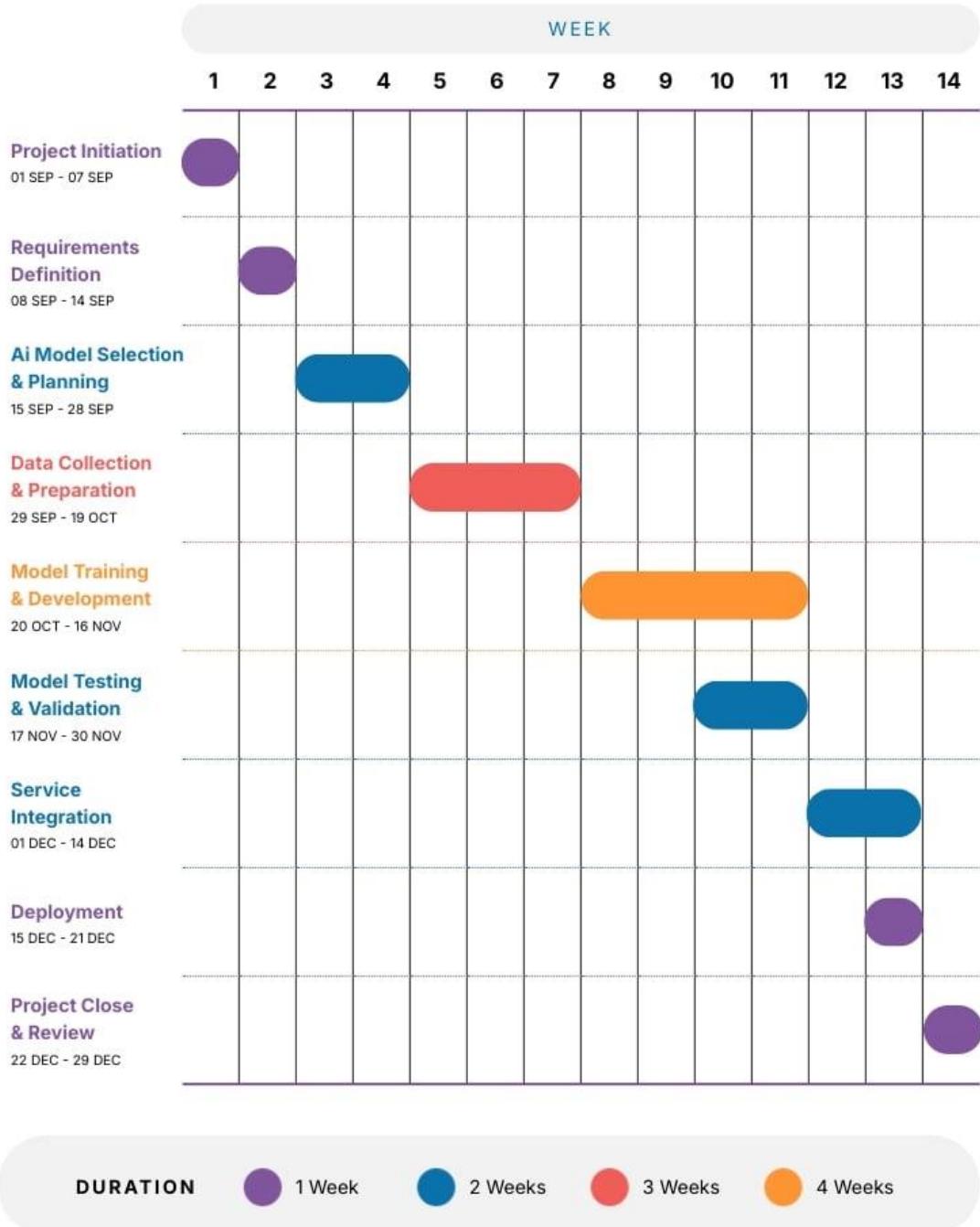
4. Testing – Check the software for errors and fix them.

5. Evolution (Maintenance) – Update and improve the software after it is released.



Project Timeline

GANTT CHART



SDLC Phases Used:

1. Requirement Gathering
 2. System Design
 3. Implementation
 4. Testing
 5. Deployment
 6. Maintenance
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4.3 Project Timeline

Phase	Duration
Ideation	2 days
Requirement Analysis	3 days
Design	4 days
Development	7 days
Testing	3 days
Deployment	2 days

4.4 Risk Management

Identified Risks:

- API failure
- Rate limit exceeded
- Incorrect translation
- Deployment issues

Mitigation Strategies:

- Error handling
- Input validation
- Secure API storage
- Backup model plan