

4. PROJECT PLANNING PHASE

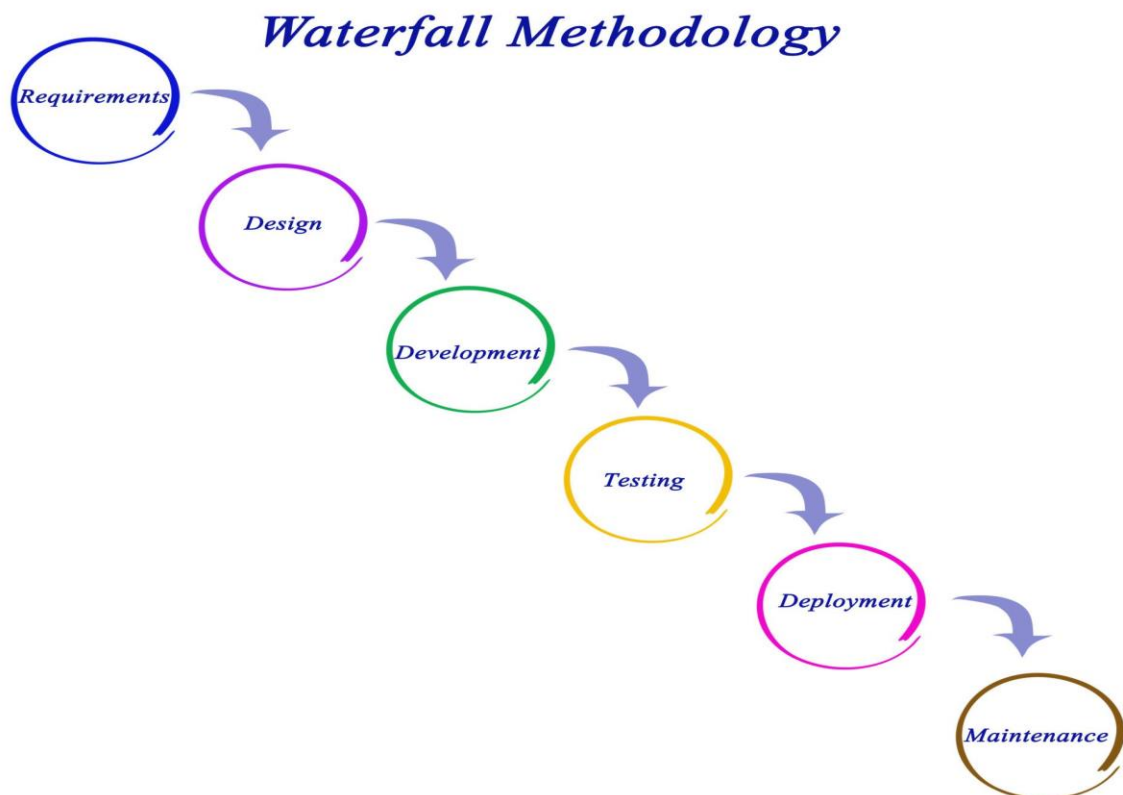
4.1 Introduction

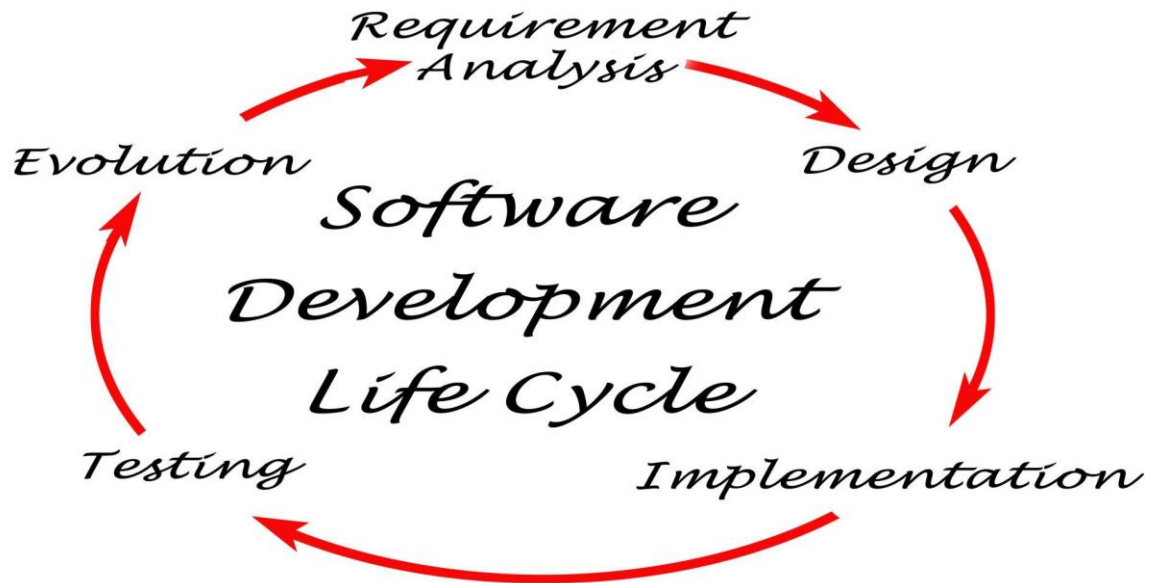
Project planning ensures smooth execution by defining:

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

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



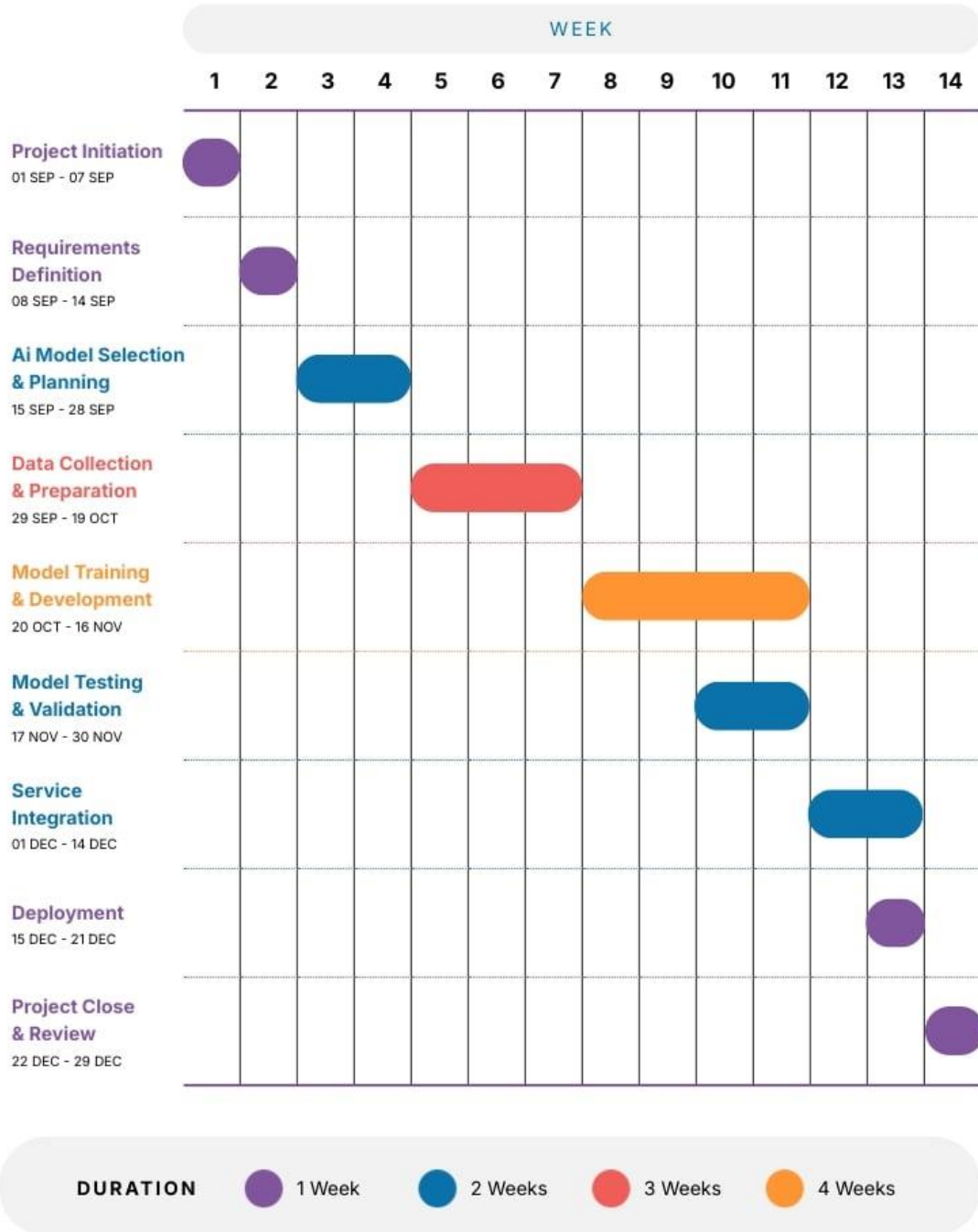


1. Requirement Analysis – Collect and understand what the customer needs.
2. Design – Plan how the software will look and work.
3. Implementation – Write the code to build the software.
4. Testing – Check the software for errors and fix them.
5. Evolution (Maintenance) – Update and improve the software 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