SOFTWARE ENGINEERING BCSE301P

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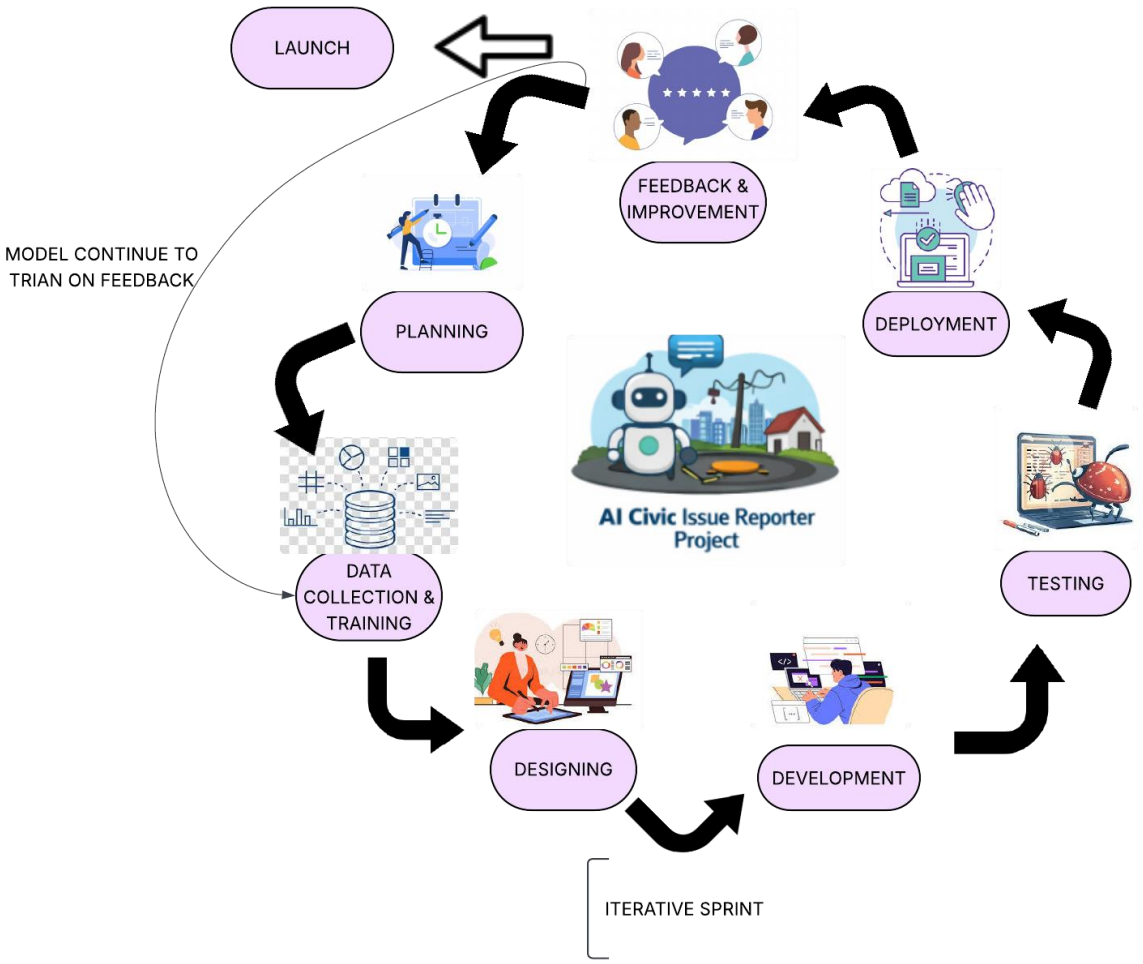
AGILE PROCESS MODEL

CROWD-SOURCED CIVIC ISSUE REPORTING AND RESOLUTION SYSTEM



Phases in the Agile Model

1. Planning
In this phase, project requirements are identified. The features such as image upload, AI-based issue detection, department assignment, complaint tracking, and user interface are defined. A basic system plan and workflow are prepared.

2. Data Collection and Training
Relevant civic issue images and datasets are collected. The AI model is trained to recognize different civic problems like potholes, garbage, broken streetlights, etc. Model accuracy is evaluated before integration.

3. Designing
System architecture, database design, user interface layout, and application flow are designed. This phase provides the blueprint for development.

4. Development
Frontend and backend modules are developed. The trained AI model is integrated with the application. Database connectivity and complaint management modules are implemented.

5. Testing
The complete system is tested for correct image classification, proper department mapping, database storage, and user interaction. Errors and bugs are identified and fixed.

6. Deployment
The application is deployed on a server or cloud platform. Users can now upload civic issue images and receive automated responses.

7. Feedback and Improvement
User feedback is collected after deployment. Based on feedback, UI improvements, feature enhancements, and AI model retraining are performed. The cycle then repeats for continuous system improvement.

Thus, the Agile Model ensures flexibility, faster delivery, and continuous enhancement of the AI Civic Issue Reporter system.