Agile Methodology & Scrum Framework

Agile Methodology

Methodology Used: Agile – Scrum Framework

The Real Estate Management System (REMS) project follows the Agile methodology to ensure flexibility, faster delivery, and continuous stakeholder feedback. Development is carried out in short iterations called sprints, enabling incremental delivery and continuous improvement of system features.

Scrum Framework

Scrum Roles

- Product Owner: Defines business requirements and prioritizes the product backlog

- Scrum Master: Facilitates the Scrum process and removes impediments

- Development Team: Implements and tests system features

- Business Analyst :

  - Gathered and documented business requirements

  - Prepared BRD and FRD

  - Created user stories and acceptance criteria

  - Supported sprint planning and stakeholder communication

Scrum Ceremonies

- Sprint Planning: Requirements are discussed and selected for the sprint

- Daily Stand-up: Team synchronizes progress and identifies blockers

- Sprint Review: Completed features are demonstrated to stakeholders

- Sprint Retrospective: Team discusses improvements for future sprints

Scrum Artifacts

- Product Backlog: A prioritized list of system requirements and user stories

- Sprint Backlog: A subset of product backlog items selected for a sprint

- Increment: The working, tested features delivered at the end of each sprint

AGILE IMPLEMENTATION IN REAL ESTATE MANAGEMENT SYSTEM

Product Owner

Team

Scrum Master

24 H

Daily Standup

Sprint 1-4 Weeks

Sprint Review & Sprint Retrospective

Product Backlog

Sprint Planning Meeting

Sprint Backlog

Finished Work

- Prioritized list of product features
- User stories awaiting team estimation
- Requirements refined by Product Owner

- Team selects sprint backlog items
- Estimates effort for selected work
- Defines sprint goal and commitments

- Work committed for current sprint
- Tasks broken down into details
- Team updates progress tracking daily

- Completed work meeting definition done
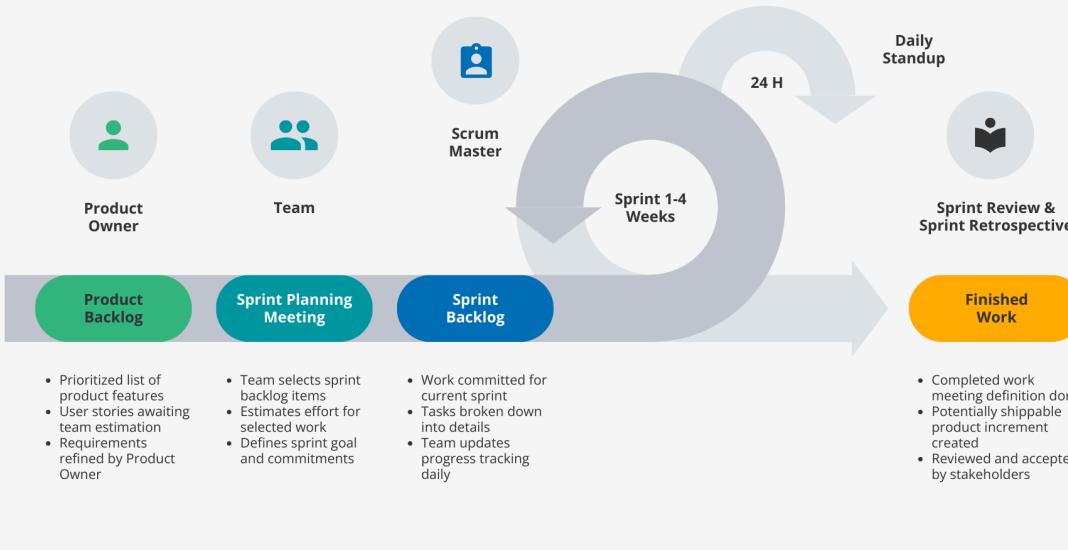- Potentially shippable product increment created
- Reviewed and accepted by stakeholders

Fig: Agile Implementation In Real Estate Management System