

Weekly Report : Weeks 1 & 2 (3 Feb – 24 Feb 2025)

During the first two weeks of Sprint 1, our team initiated the **DentiDesk** project, established its foundations, and began implementing core components. Activities spanned repository setup, design of the custom BST data structure, pseudocode drafting, and establishment of automated tests.

Key Activities

Week 1 Kickoff (3 Feb 2025)

- **Project launch & team roles**
Introduced Scrum Master, Secretary, two Developers, and Tester; agreed on the “DentiDesk” name and high-level objectives.
- **Requirement walkthrough**
Reviewed the brief: implement a Binary Search Tree (BST) for appointment management, SQL persistence, and a console UI.
- **Repository & tooling setup**
Created GitHub repo with `/src`, `/db-scripts`, and `/tests`; decided on MSTest for testing.

Week 1 Review (7 Feb 2025)

- **Namespace organization**
Refined folder structure to include `Models/`, `DataStructures/`, `DataAccess/`, and `Utilities/`.
- **Initial model classes**
Reviewed and adjusted the basic `Appointment` and `Employee` classes to align with requirements.

Week 2 Planning (14 Feb 2025)

- **BST design deep-dive**

Defined patient-name key rules (case-insensitive), multi-appointment grouping in each node, and in-order traversal for listing.

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- **Pseudocode drafting**

Drafted insertion, search, and removal pseudocode on the whiteboard to guide implementation.

- **Test plan mapping**

Outlined unit test cases: single-insert, multi-insert same name, sorted order, remove by ID. Assigned Dev 1 to implement BST, Tester to scaffold tests.

Week 2 Review (24 Feb 2025)

- **BST implementation validation**

Demonstrated working **Appointment**BST methods; all initial tests passing.

- **Edge-case tests**

Added tests for empty-tree search and removal, and confirmed duplicate names accumulate correctly.

Accomplishments :

- GitHub repo and CI structure established
- Core data model (**Appointment**, **Employee**) defined
- Custom BST implemented with in-order traversal
- Comprehensive unit and edge-case tests in place
- File-integration and performance test plans outlined

Next Steps :

1. **Database Integration:** Implement and test `AppointmentDataAccess` methods against SQL Server.
2. **File Import Feature:** Complete bulk-load functionality with error handling for malformed lines.
3. **UI Enhancements:** Refine Spectre.Console menus and input validation.
4. **Sprint 2 Planning:** Define tasks for employee management (add, remove) and full integration tests.

Recorded by : Yug Patel (Scrum Master)

Date: 24 Feb 2025