
Project Presentation



Title: Site Survey Tool for Internet Service Providers

Infosys Springboard Internship – Team Project

Date of Internship:

27-11- 2025 to 21-01-20256

Mentor: Rahule Mule Sir

Team Members:

- 1) Dnyaneshwar A. Kharachane (Team Lead)
- 2) Abhishek P Jadhav 3) Ucith Yadav
- 4) Abhinav Thammisetti 5) Luckey Bhardwaj
- 6) Kavya S 7) Khushbu Mukatim
- 8) Shibasis Basu Mallick

Github Link : <https://github.com/Dnyaneshwar2026/infosys-springboard-site-survey-tool.git>

Organization Profile: Infosys Springboard



- Infosys Springboard is a digital learning platform by Infosys Ltd.
- It offers free, industry-oriented learning programs.
- Provides real-world, mentor-guided internship opportunities.
- Focuses on practical, hands-on project-based learning.
- Helps students build industry-ready technical and professional skills.

Project Overview



What is Site Survey Tool?

- Web-based planning tool for ISPs
 - Used before internet installation
 - Helps engineers understand site layout
 - Suitable for:
 - Apartments
 - Office buildings
 - Campuses
 - Public areas
 - Network installation planning tool
-

PROBLEM STATEMENT



Problems with Traditional Site Survey

1. Manual data collection
2. No centralized system
3. Difficult equipment planning
4. Installation mistakes
5. Time & cost increase

Need:

A digital, structured site survey
system

Proposed Solution



Our Solution

- Centralized Site Survey Web Application
- Structured hierarchy:

Campus → Building → Floor → Space

- Checklist-based data capture
- Accurate planning & documentation
- Auto-generated survey reports

Key Features



- Campus / Building / Floor / Space management
- Floor plan upload (Image / PDF)
- Checklist templates & survey forms
- Space-wise data capture
- Secure authentication (JWT)
- PDF report generation

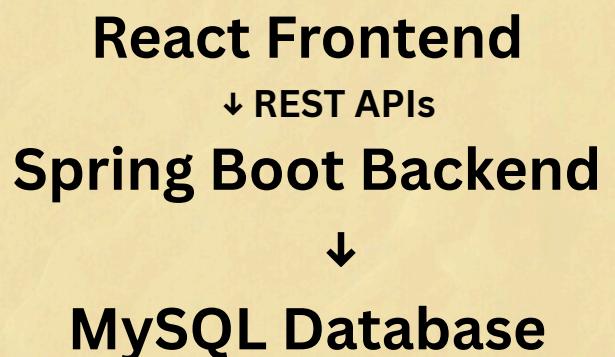
Technology Stack & Architecture



Tech Stack

- Frontend: React.js + Tailwind CSS
- Backend: Spring Boot (Java)
- Database: MySQL
- Authentication: JWT

Architecture



Milestone 1



Core Setup & Foundations

Key Work Completed

- Spring Boot project setup
- MySQL database configuration
- JWT-based authentication
- Campus module APIs
- Building module APIs

Milestone 2



Floor Plan & Data Management

Key Work Completed

- Floor entity implementation
- Floor-related REST APIs
- Floor plan upload functionality
- Hierarchical data validation
- (Campus → Building → Floor)

Milestone 3



Labeling & Survey Data Capture

Key Work Completed

- Space module implementation
- Checklist templates & questions
- Dynamic survey forms
- Survey response capture
- React + Spring Boot integration
- CORS handling & validation

Milestone 4



Reporting & Finalization

Planned Work

- PDF report generation
- RF integration tools
- Dashboards & analytics
- Deployment & documentation

Project Output

Application Output



1) Space selection screen

localhost:3000

Select Space

Total spaces after filter: 5

- Room 101
- Room 101
- Room 101
- Room 201
- Room 301

Survey data saved in database

MySQL Workbench

projectDemo

File Edit View Query Database Server Tools Scripting Help

Navigator: campuses floors

Query 1 × campuses floors

1 • USE site_survey;
2 • SELECT * FROM spaces;
3 • SHOW TABLES;
4 • SHOW TABLES;

Result Grid | Filter Rows: Export: Wrap Cell Content: □

Tables_in_site_survey

- buildings
- campuses
- checklist_questions
- checklist_responses
- checklist_templates
- floors
- organizations
- spaces
- users

Administration Schemas Information

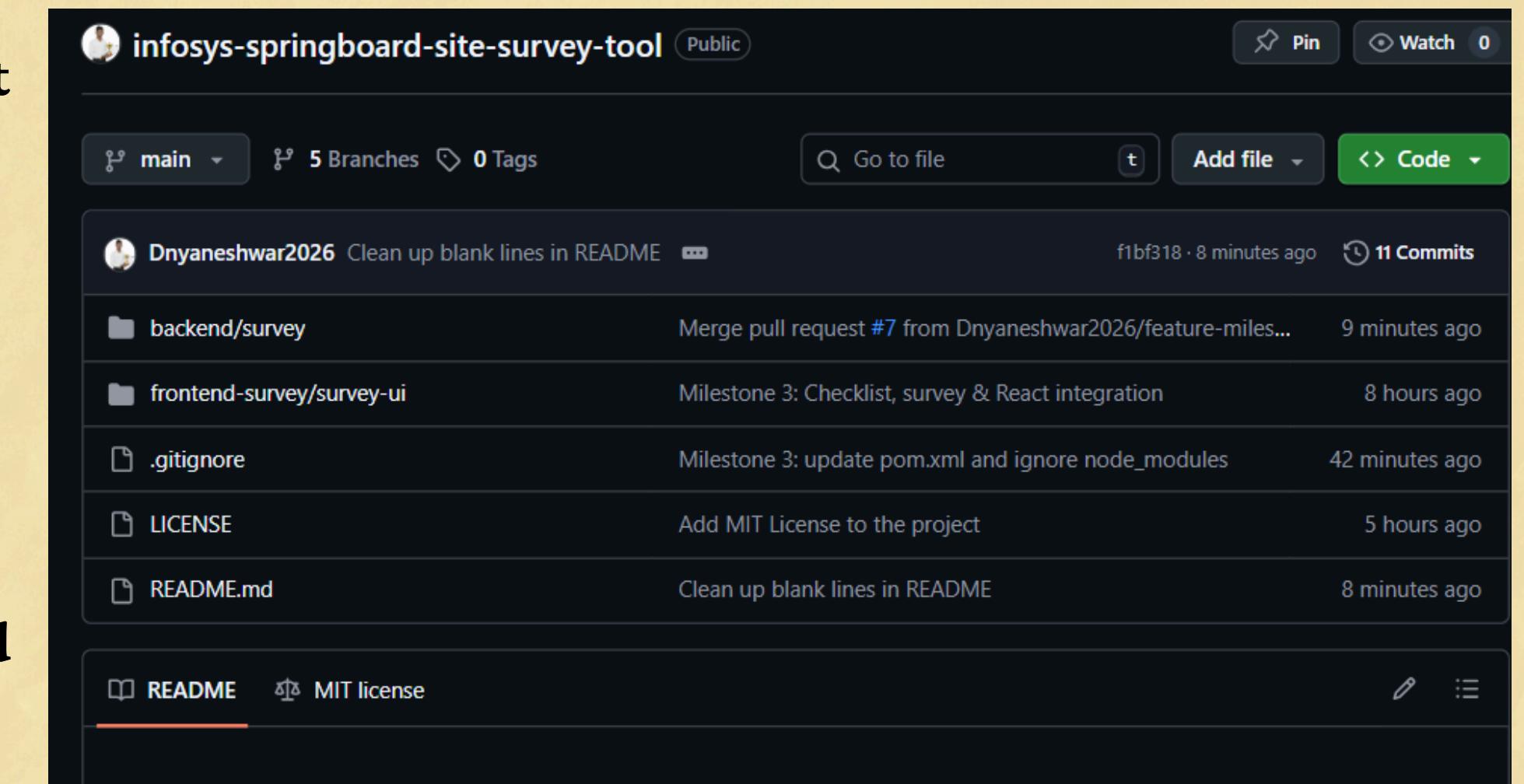
Column: label
Collation: utf8mb4_0900_ai_ci
Definition: label varchar(255)

Auto-generated PDF report

Git & Team Collaboration

Version Control & Collaboration

- Git and GitHub used for version control
- Feature-based branching for development
- Each team member worked on assigned modules
- Pull Requests used for code review & merging
- Maintained clean and collaborative workflow
- Enabled smooth teamwork and controlled development



A screenshot of a GitHub repository page for 'infosys-springboard-site-survey-tool'. The repository is public, has 5 branches, and 0 tags. The commit history shows 11 commits from 'Dnyaneshwar2026' over the last 8 minutes. The commits include: 'Clean up blank lines in README' (f1bf318), 'Merge pull request #7 from Dnyaneshwar2026/feature-miles...' (9 minutes ago), 'Milestone 3: Checklist, survey & React integration' (8 hours ago), 'Milestone 3: update pom.xml and ignore node_modules' (42 minutes ago), 'Add MIT License to the project' (5 hours ago), and 'Clean up blank lines in README' (8 minutes ago). The repository also includes a README file and an MIT license.

Commit	Message	Time Ago
f1bf318 · 8 minutes ago	Clean up blank lines in README	Dnyaneshwar2026
Merge pull request #7 from Dnyaneshwar2026/feature-miles...	9 minutes ago	
Milestone 3: Checklist, survey & React integration	8 hours ago	
Milestone 3: update pom.xml and ignore node_modules	42 minutes ago	
Add MIT License to the project	5 hours ago	
Clean up blank lines in README	8 minutes ago	



Acknowledgement & Thanks

Acknowledgement – Organization



- We sincerely thank Infosys Springboard for providing this valuable internship opportunity.
- The platform helped us gain hands-on learning and real-world project experience.

Acknowledgement – Mentor



- We are grateful to our mentor **Rahule Mule Sir** for his constant support and guidance.
- His mentorship and clear direction helped us successfully complete the project.



Thank You