

BeePlan — Final Project Report (SENG 383)

Submission format: PDF (place in Report/).

1. Project Identity & Repository Access

Project Name: BeePlan

Developer(s): Şahin Özsoy

GitHub Repository:

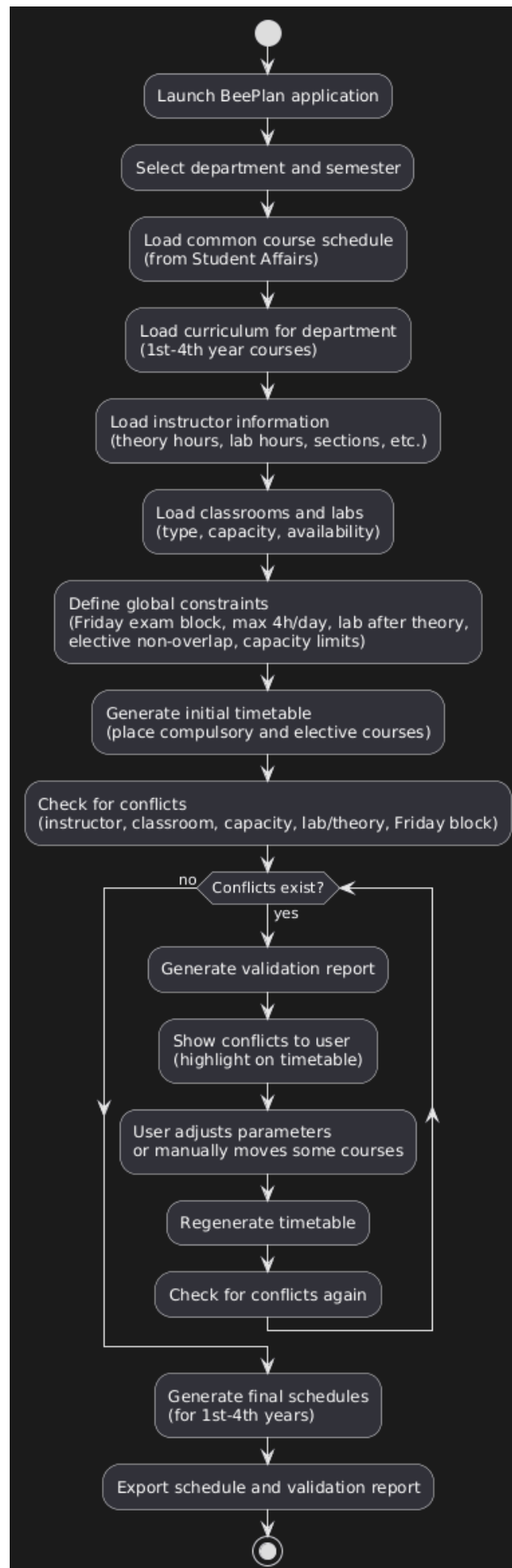
Demo Video: video/beeplan_demo.mp4

Repository contains: /src, /docs, /video, /Report and README.md.

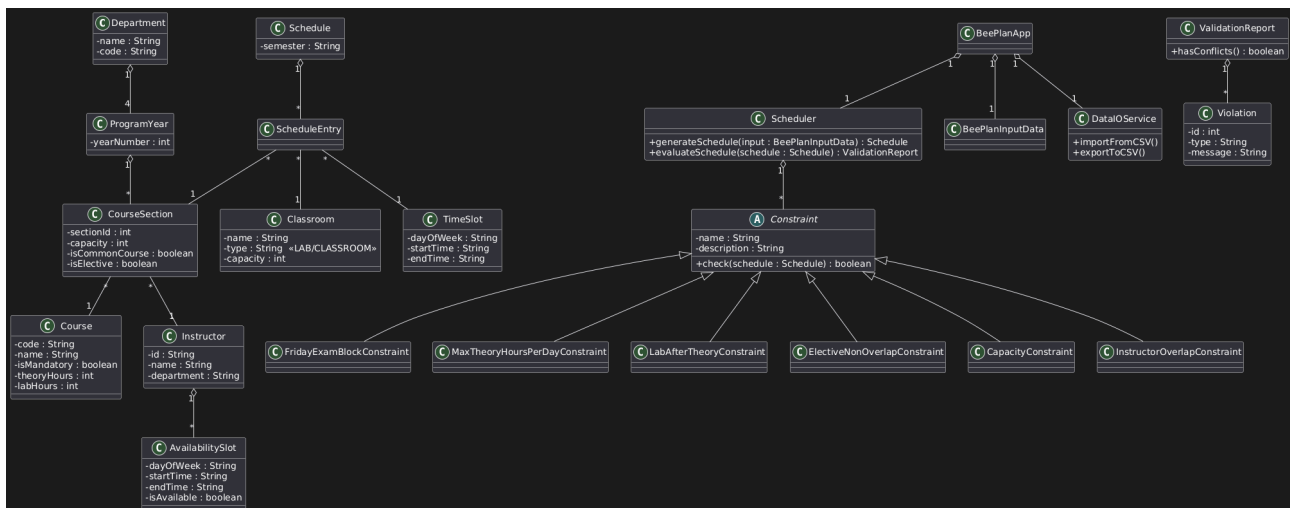
2. Final Design Artifacts

Latest Activity Diagram, Class Diagram, and GUI screenshots are included on the following pages (also stored in docs/beeplan/design/assets).

2. Final Design Artifacts — Activity Diagram



2. Final Design Artifacts — Class Diagram



2. Final Design Artifacts — GUI: Main Window

BeefPlan - Main Window

FileViewHelp

Dashboard

Inputs

Common Courses

Curriculum

Instructors

Classrooms

Rules & Priorities

Schedule

Reports

Weekly Timetable

Days x Time Slots grid

Cells show: Course Code, Section, Classroom, Instructor

Generate Schedule

Open Validation Report

Status: ReadySemester: 2024-2025 FallDepartment: SENG

2. Final Design Artifacts — GUI: Curriculum Input

beePlan - Curriculum Input

Semester:

Year:

3rd Year

Course Code	Course Name	Year	Mandatory	Theory	Lab	Instructor	Sections	Capacity
SENG201	Data Structures	2	Yes	3	2	Dr. X	2	40

Add Course

Edit Course

Delete Course

Import CSV

Export CSV

2. Final Design Artifacts — GUI: Generate Schedule

BeefPlan - Generate Schedule

Semester:

Department:

SENG

Years:

1

2

3

4

Generate Schedule

Timetable Preview

Days vs Time Slots grid

Cells: Course Code, Section, Classroom, Instructor

Legend

☐ Normal slot

☐ Soft warning

☐ Hard conflict

Filters:

Show only conflicts

Show selected year only

Save Schedule

Export CSV

Export Image

2. Final Design Artifacts – GUI: Validation Report

[illegible]

3. AI Usage & Prompts

AI usage evidence is recorded in docs/beeplan/ai_usage.md (Prompt → Output → Revision).

This file contains the key prompts used during implementation and the revisions made after observing outputs.

4. Verification & Validation (V&V)

V&V test cases and results are recorded in docs/beeplan/vv_tests.md.

Automated self-test command: `python src/self_test.py`

Bug-fix screenshot placeholders: docs/beeplan/vv_screenshots/ (bug1.png, bug2.png).