

# **BeePlan — Final Project Report (SENG 383)**

Submission format: PDF (place in Report/).

## **1. Project Identity & Repository Access**

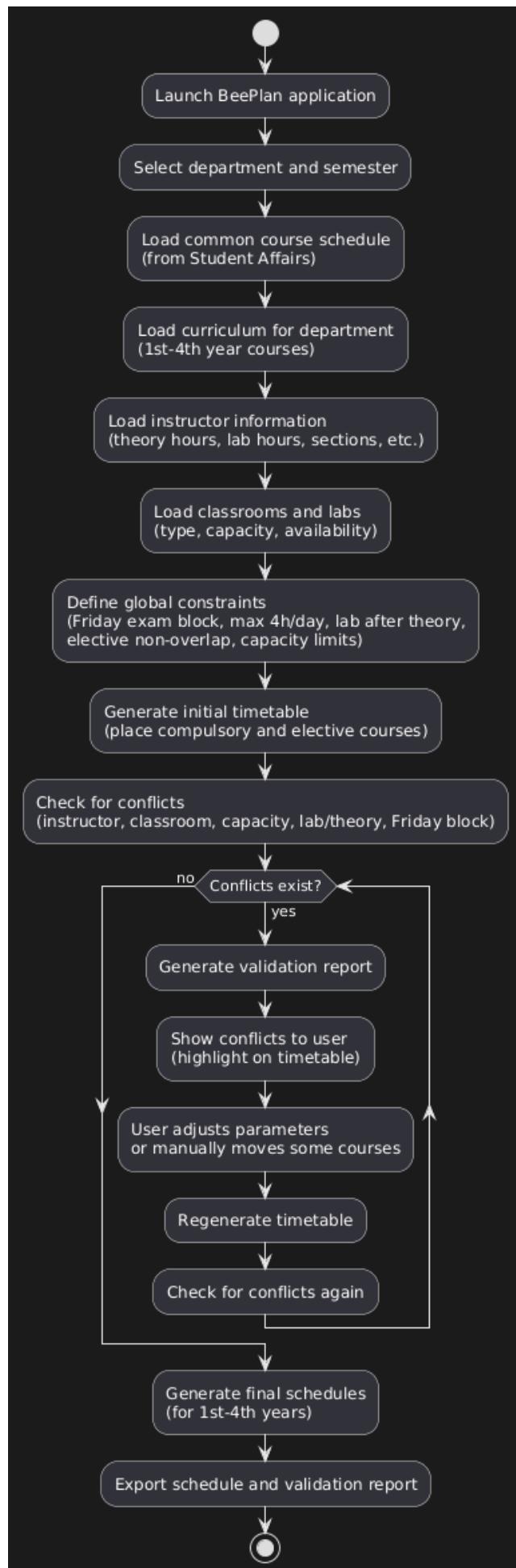
<b>Project Name:</b>	BeePlan
<b>Developer(s):</b>	Şahin Özsoy
<b>GitHub Repository:</b>	
<b>Demo Video:</b>	video/beeplan_demo.mp4

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

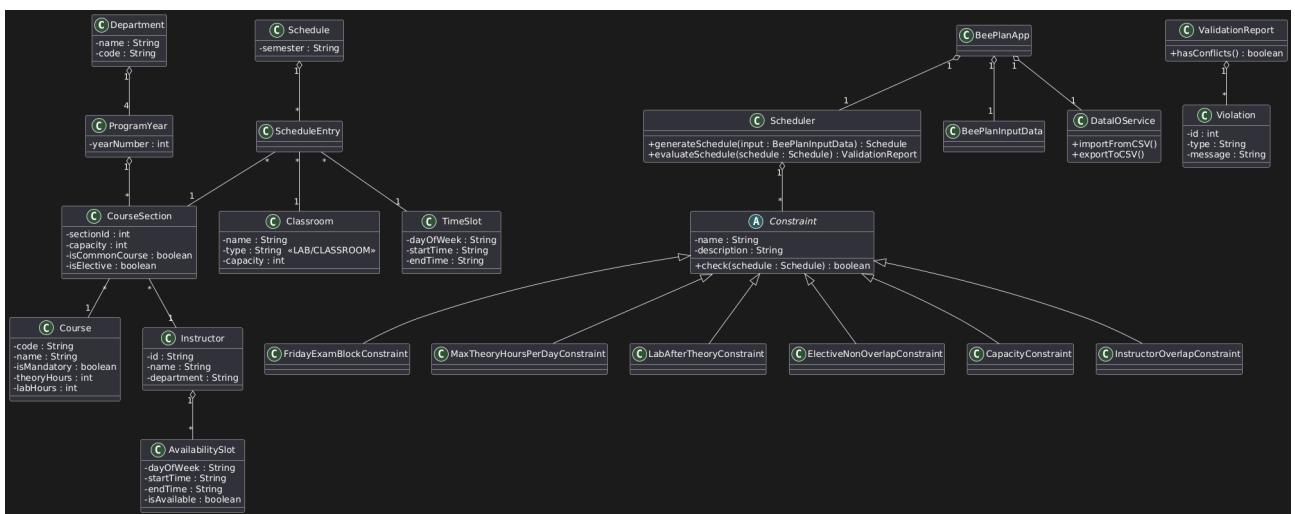
## **2. Final Design Artifacts**

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

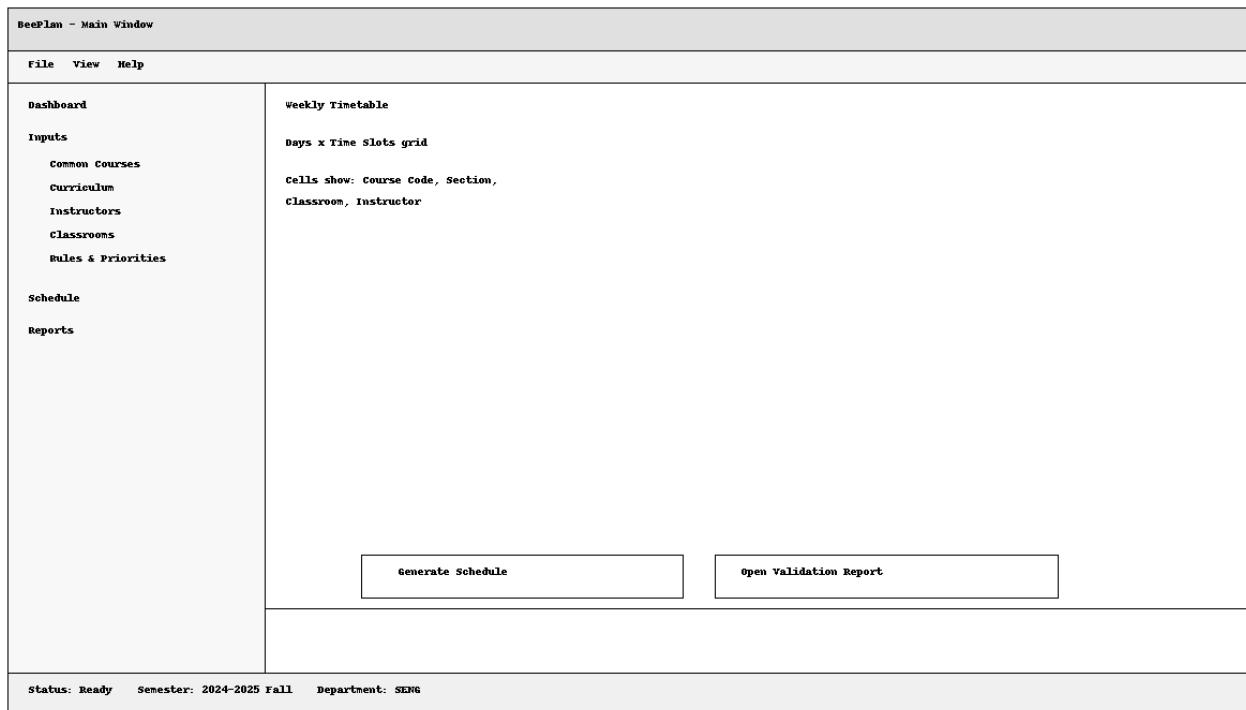
## 2. Final Design Artifacts – Activity Diagram



## 2. Final Design Artifacts – Class Diagram



## 2. Final Design Artifacts – GUI: Main Window



## 2. Final Design Artifacts – GUI: Curriculum Input

BeePlan - Curriculum Input								
Semester:	<input type="text"/>		Year:	<input type="text"/> 3rd Year				
Course Code	Course Name	Year	Mandatory	Theory	Lab	Instructor	Sections	Capacity
SENG201	Data structures	2	Yes	3	2	Dr. X	2	40

<input type="button" value="Add Course"/>	<input type="button" value="Edit Course"/>	<input type="button" value="Delete Course"/>	<input type="button" value="Import CSV"/>	<input type="button" value="Export CSV"/>
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## 2. Final Design Artifacts – GUI: Generate Schedule

BeePlan - 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								
<input type="checkbox"/> Normal slot								
<input type="checkbox"/> Soft warning								
<input type="checkbox"/> Hard conflict								
Filters:								
<input type="checkbox"/> Show only conflicts								
<input type="checkbox"/> Show selected year only								
Save Schedule	Export CSV	Export Image						

## 2. Final Design Artifacts – GUI: Validation Report

BeePlan - Validation Report						
Violation ID	Type	Description	Course	Instructor	Time Slot	Classroom
1	Capacity	Section exceeds room capacity	ENG201-1	Dr. X	Mon 10:40-12:30	B205

<a href="#">Highlight in Timetable</a>	<a href="#">Export CSV</a>	<a href="#">Export PDF</a>
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### **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/beepplan/vv\_tests.md.

Automated self-test command: python src/self\_test.py

Bug-fix screenshot placeholders: docs/beepplan/vv\_screenshots/ (bug1.png, bug2.png).