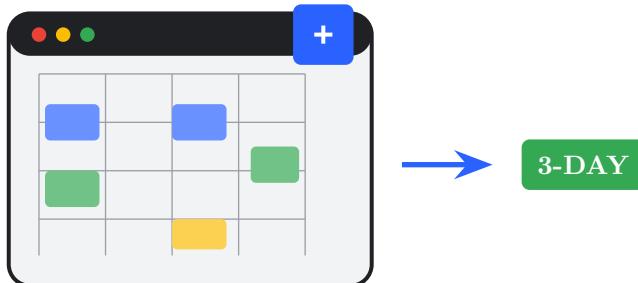


KARO TAKHLEEQ 2026

— Phase 1 Submission —

Smart Course Registration Chrome Extension

Optimizing Timetables. Minimizing Hassle. Maximizing Time.



Team Members

Muhammad Ahmad
Syed Mohammad Hussain Bukhari
Abdul Raffay Naeem

University of Central Punjab

Faculty of Information Technology

January 2026

Contents

1 Problem Identification	2
2 Impact & Relevance	3
3 Solution Concept	4
3.1 Core MVP Features	4
3.2 How does your solution improve the daily campus experience?	5
4 Users & Validation	6
4.1 Phase 1 Validation (Today)	6
4.2 Phase 2 Validation (Planned)	6
4.3 Validation Questions	6
5 Technical Approach	8
5.1 Technology Stack	8
5.2 Development Timeline	8
6 Expected Output Summary	8

1. Problem Identification

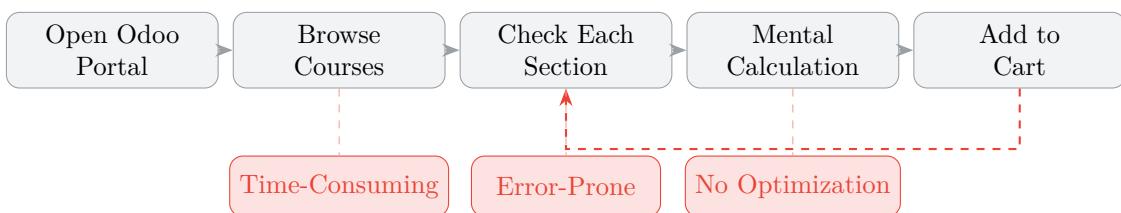
What specific campus-life problem are you solving?

The UCP Odoo-based course registration system requires students to **manually browse** through course sections, checking timings and availability **one-by-one** using an add-to-cart system. Students must mentally calculate:

- ✖ Schedule conflicts between sections
- ✖ Gaps between consecutive classes
- ✖ Optimal distribution across campus days

This tedious **trial-and-error** process consumes **30 to 60+ minutes** each semester.

Current Registration Flow



Who is most affected by this problem?



How often does this problem occur?

2x per year (each semester) **32,000** registration sessions annually

Additional stress during **add/drop weeks** when sections rapidly open and close.

How is this problem currently addressed, and why is it inadequate?

Manual Browsing

External Spreadsheets

Trial & Error in Cart

Constant Refreshing

Slow & tedious

Context switching

No optimization

Sections close

2. Impact & Relevance

What negative impact does this problem have on students?

 30–60 min wasted

Time Waste

 5-day schedules

Poor Schedules

 Anxiety & stress

Reg. Anxiety

 Extra commute

Physical Toll

 Large gaps

Wasted Time

How many students are likely affected?

Registration Sessions Per Year

16,000

Fall Semester

16,000

Spring Semester

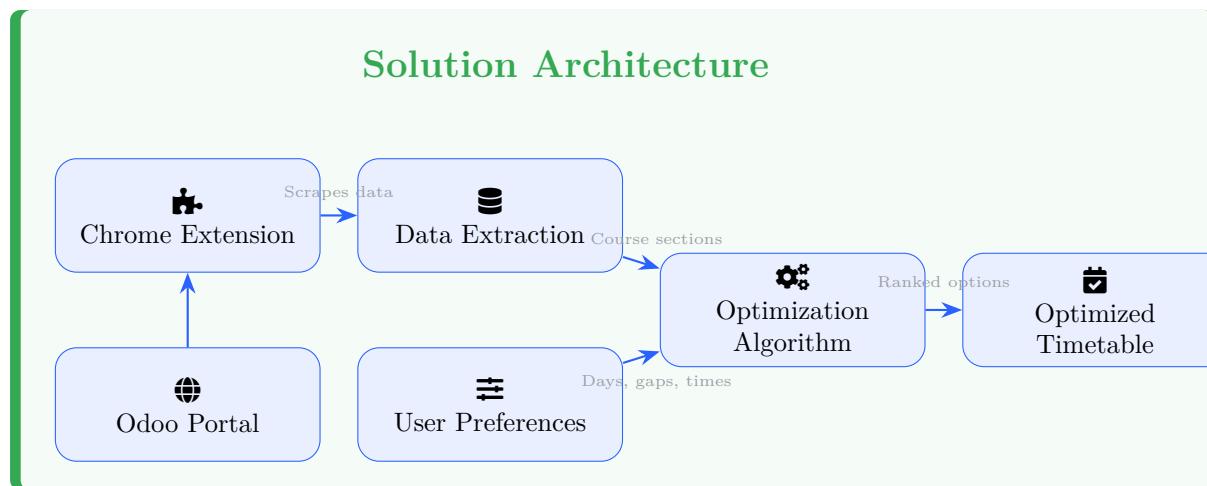
32,000

Total/Year

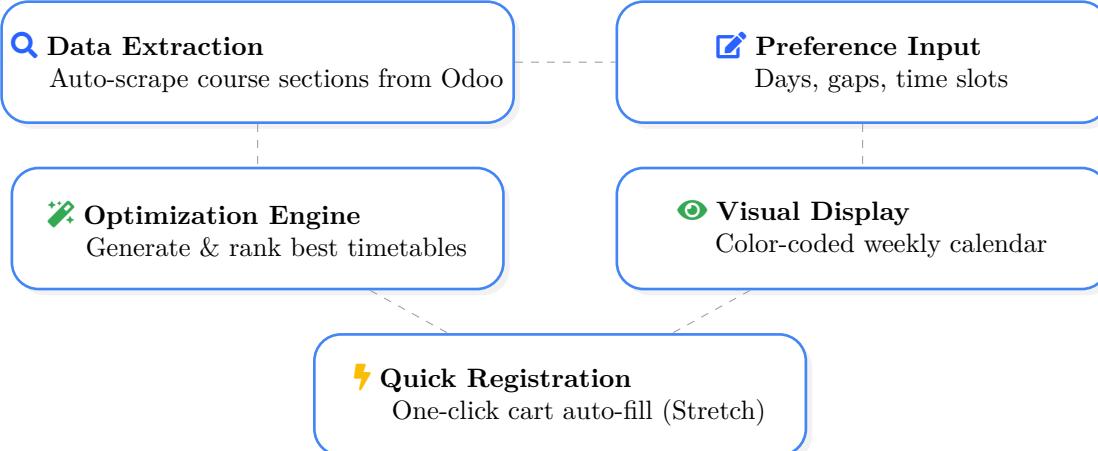
3. Solution Concept

? Briefly describe your proposed solution

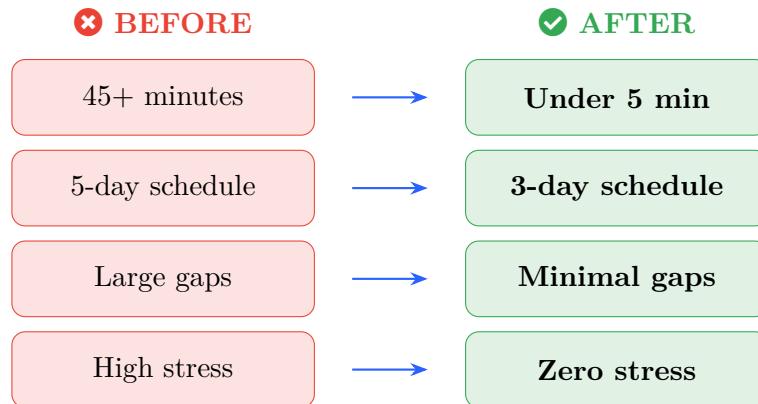
A **Chrome Extension** that integrates directly with the UCP Odoo portal to automatically extract course data, generate optimized timetables, and enable one-click registration.



3.1 Core MVP Features



3.2 How does your solution improve the daily campus experience?



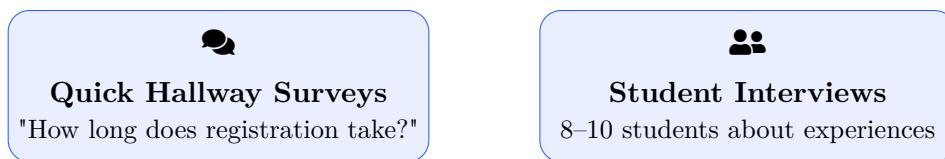
4. Users & Validation

❓ Who is your primary user?



❓ How will you validate that they need your solution?

4.1 Phase 1 Validation (Today)



4.2 Phase 2 Validation (Planned)

Method	Description
💻	Show mockups/wireframes of extension UI Demonstrate working prototype to 15–20 students
📅	Observe reactions and gather feature requests Validate optimization preferences

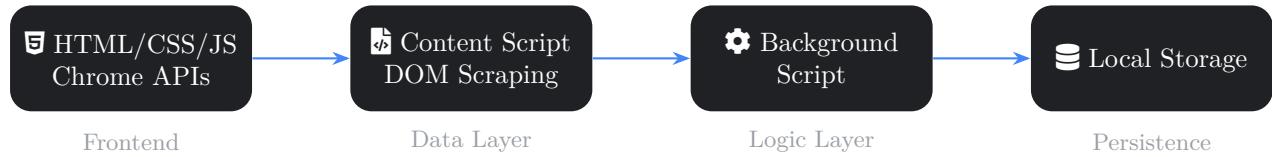
4.3 Validation Questions

- ❓ “How long does course registration typically take you?”
- ❓ “What’s the most frustrating part of registration?”
- ❓ “Do you prefer fewer days with packed schedule OR more days with gaps?”
- ❓ “Have you ever ended up with a schedule you weren’t happy with?”

❓ “Would you use a Chrome extension that auto-generates optimal timetables?”

5. Technical Approach

5.1 Technology Stack



5.2 Development Timeline



6. Expected Output Summary

- ✓ **Clear Problem Interpretation:** Students waste time manually building schedules in Odoo
- ✓ **Identified Target Users:** All 16,000+ UCP students, especially daily commuters
- ✓ **Solution Approach:** Chrome extension integrated directly with Odoo portal
- ✓ **High-Level MVP:** Auto-generate and rank optimized timetables based on preferences

⌚ Ready for Phase 2: User Research & Validation

Building a solution that saves 40+ minutes per student, per semester