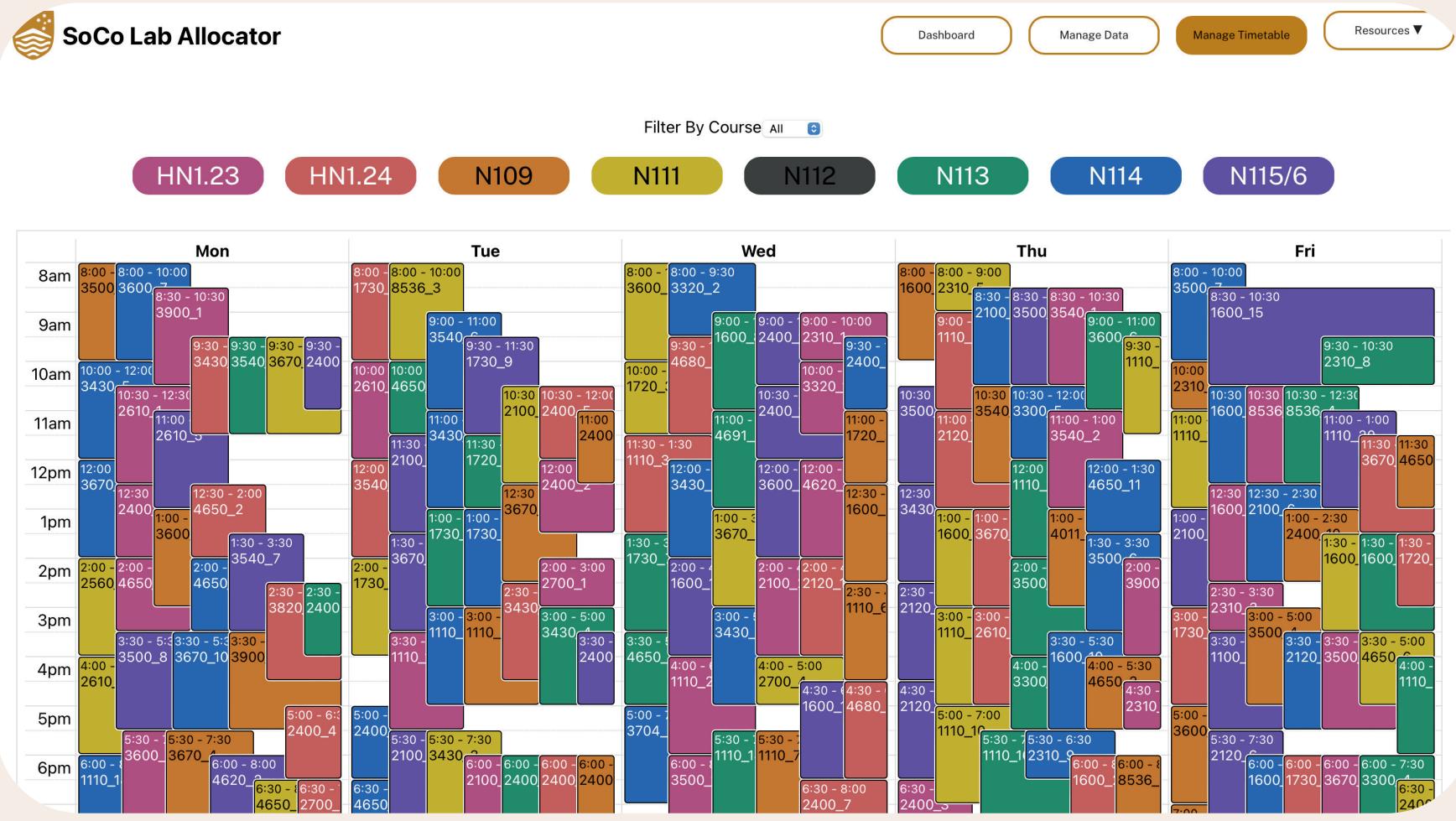


LAB ALLOCATION

SOCO



Australian
National
University

SoCo Lab Allocation System

Upload Data

Manage
Timetable

Manage
Data

About Help Logs Generate

Scan Me



youtube.com/watch?v=BdXsKz5AAuU

The Problem

With limited computer labs on campus, the School of Computing was frustrated with how complex and time-consuming allocating labs was.

Our team took on this challenge, starting from scratch to deliver a solution that would make this problem simpler and take less time.

OUR SOLUTION

The School of Computing Resource Maximisation team took on this challenge to create a solution that doesn't just work for its users but works with them to allow for a simple and easy approach to managing course and timetable data.

Leveraging a genetic algorithm, our teams solution assesses predefined constraints and requirements, and generates a timetable that meets as many criteria as possible. By repeatedly creating and evaluating generated timetables, the algorithm improves its allocation with each iteration.

The goal of this solution was not only just to generate these timetables, but to also create a user interface that is simple and easy to use.

Allowing users to upload and modify course data, and create and edit timetables, the School of Computing Lab Allocator is the foundations of a solution that can support administrative staff university wide.

Our Team



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