# Team 9 Project Charter

# CS 307 Fall 2022

# Purdue Course Finder

## Team Members:

Alex Kobus, Alex Plump, Tommy Lane, Peter Zong

## Project Title:

Purdue Course Finder

## Problem Statement:

Many students see their schedule at the beginning of the year and must go searching for their classes. Making this process harder, Google Maps often doesn't recognize building acronyms, making it even more difficult to find classroom locations. Our product will eliminate that issue by providing a map of Purdue which outlines buildings, classrooms, the courses in those classrooms, the time slots of those courses, and more. This map will also be searchable using the names or acronyms of buildings, or by using course numbers or titles. This will help students to find exactly where their classes are, find more information about the classrooms and buildings, and see the locations of other sections for their courses.

## Project Objectives:

- Build an interactive website that helps students locate classrooms and get detailed information about the classes in those rooms
- Create a user account system to save favorites of specific classrooms, buildings, courses, and sections
- Create a system to filter what shows on the map and the accompanying sidebar list
- Create a system to view schedules of when and where specific classes meet
- Create a system to view schedules of what classes meet in a specific building or room
- Generate statistics on how often classrooms or buildings are used

## Stakeholders:

_Users:_ Purdue students looking for classroom availability, class schedules or locations, or class section details

_Developers:_ Alex Kobus, Alex Plump, Tommy Lane, Peter Zong

_Project Manager:_ Mingwei Zheng

_Project Owners:_ Alex Kobus, Alex Plump, Tommy Lane, Peter Zong


## Project Deliverables:

- An interactive React.JS web application that helps students locate classrooms and get detailed information about the classes in those rooms
- A Spring Boot backend that saves user login information, user favorites data, logs of accessed pages, and data retrieved from Purdue's API into a database
- An interface for filtering features, viewing class schedules, and how to use the website.
    - Filters allow users to filter information by building, by courses, by semester, and by classroom
- Birds-eye view map of Purdue's campus using the Google Maps API with building information overlayed to create an interactable page
- A page to show statistics on how often a classroom or building is used