



# RPI DORM ROOM HELPER

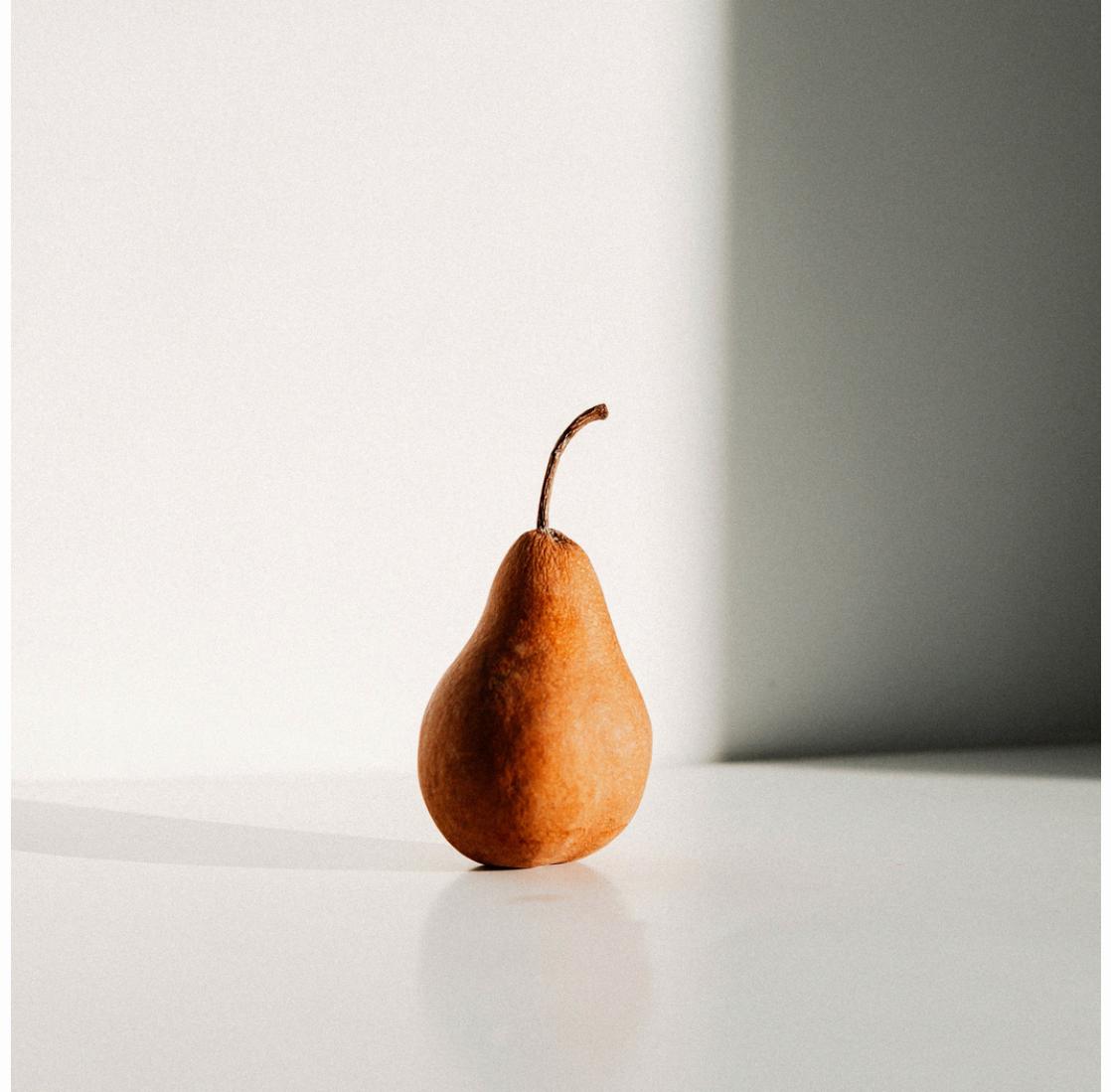
PROVIDE A BETTER DORMITORY  
SELECTION EXPERIENCE

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# INTRODUCTION

## **Peiyun Li**

- CS major
- Passed DS.
- some web dev experience

## **ZiHao Wang**

- CS major
- Passed DS
- knows 3D model

# VISION

Our vision is to develop a website to assist RPI students in choosing dorm rooms for the upcoming semester.



# INSPIRATION



The project was born out of a bad experience our group members had when choosing a dorm room. We are committed to creating a better platform with the aim of optimizing the dorm selection experience for future students.

We hope to build a web page that integrates dormitory model display, map retrieval, real data display and a series of functions to replace the original old design.

<https://rpirooms.com/> -> the website, missing crucial information, can't be shown intuitively

# GOAL

Our goal is to create and get the website running by the end of the semester.  
It will include at least the following:



## PRE EXISITING INFORMATION DETAILS

We will include all the existing information provided by RPI on our new website.

We will add details such as:

- how far is the dorm from the main campus
- does the dorm have a water fountain
- dimensions

## MAP

A usable map with marks for each dorm room and building.

# EXPANSIONS



**01** A platform where students can communicate with each other.

**02** 3D model of the dorm, including rooms with in.



# DIFFICULTIES

## **Learning markup language**

None of our team members have much experience in website building, so it will take time to learn at least one markup language at the beginning of the project, which is one of the difficulties of the project.

## **Model**

It will be a ton of work to build models for all dorm rooms, thus we will need to find a more efficient method once we get to the model stage.

## **Communication platform**

Creating a functional communication platform is challenging. For beginners at least.



## **Security problem**

Checking whether the user's comment is proper.  
Checking whether the user is actual helping instead of following around and giving false answer.

## **Publishing the website**

First time doing it.

# MILESTONE

## **September -October**

week of September 16 - finish the analyze of other similar project on rcos and have the basic structure done for the website.

September to October - build the website so it can fully functional on a VM.

## **Novemeber**

November - try to publish it online, and solve bugs and regular patches and improvements base on feedbacks.

## **December**

December - try to advertise our website.

Add more functions base on feedback and other example websites for other schools.

