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## Hackerstreet boys

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# Campus Buddy

13<sup>th</sup> February 2022

## OVERVIEW

Campus Buddy is a mobile application for both Android and iOS users. This app is used to automate everyday activities on college campuses that need student intervention like getting laundry, ordering food from the canteen, etc .

## Technologies used

1. Dart
2. Flutter
3. Django rest framework.
4. python

## SPECIFICATIONS

- Campus Buddy is a college campus management solution that can be used by students on college campuses for automating everyday activities like getting laundry, ordering food from the canteen, etc.
- This Prototype of the app tries to solve some integral problems that we faced in our college life but it could be extended to add more functionalities.
- The App currently plans to have three major sections
  - a. -> Laundry
  - b. -> Room Service
  - c. -> Canteen<Not implemented>

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### **Laundry:**

- Problem: We have to write down our details in the register in the laundry room and we never have an idea of when our laundry is done and is ready to be collected.
- Solution: We made an interface in the app such that the redundant details of the user are already present in the form and there could be a payment option integrated with it. All the data sent through the forms by the user is stored in the database ideally managed by the campus itself. We also wanted to fastrack the whole process by automating it.

### **Room Service:**

- Problem: We had to write down an entry in the register every time we wanted to get our room cleaned. And also the housekeepers would clean the room if nobody is present in the room. There wasn't a fixed time for it either.
- Solution: A student can raise a request through the app and also mention if he would want the room cleaned without supervision. All the previous requests are stored in the app too.

### **Canteen:**

- Problem: Crowding and delay in the canteen
- Solution: We want to build an interface in the app where the user can order his/her food in the app around 15min before they go to the canteen so that the crowding would reduce and the payment could be done beforehand in the app itself.

## **Track - Task Automation and Open Innovation**

### **Link to the GitHub repo - [click here](https://github.com/jacobaltnative/CampusAutomation)**

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### **Future Prospects:**

1. Main gate entry - exit manager : This feature can be used to automate the entry and exit registration
2. In the current implementation of this app the administrator receives mail for every request. Instead we can improve this by allowing the

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administrator to login in to the app as administrator to see the requests.

3. We can add a feature to place orders in the canteen to reduce delay and overcrowd.
4. We can also include a payment portal for canteen and laundry with any upi.

### **Instructions for running the application:**

- Install flutter, dart, django rest framework and its dependencies
- Install Android studio for the emulator, and install a device to emulate
- To run the server - use command `$ python3 manage.py runserver`
- To run the emulator click on run and run main.dart file with flutter icon
- Or Install the apk file from github and click on the app icon.