

Kent Ridge Washer Bot

NUS Interhall Hackathon 2022



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01

Introduction

Problem Statement

Problem statement

We all enjoy staying on campus, but there's so many things to experience that it can be overwhelming at times. Find a problem that you think impacts residents in your hall, and create something that will make it better!



02

Pain Points

Relevance



Pain Points



Waste of Time

Imagine going to the laundry room and all the washers are full



Waste of Energy

The waste of energy travelling down the many floors to the laundry room



Uncertainty

The pain of uncertainty, not knowing if there are machines available or not

03 Implementation

Viability



Already Implemented

An active solution to this problem has been implemented.



Already Live

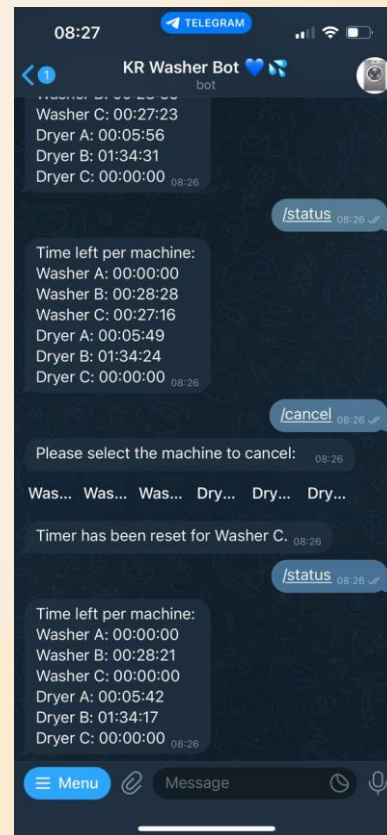
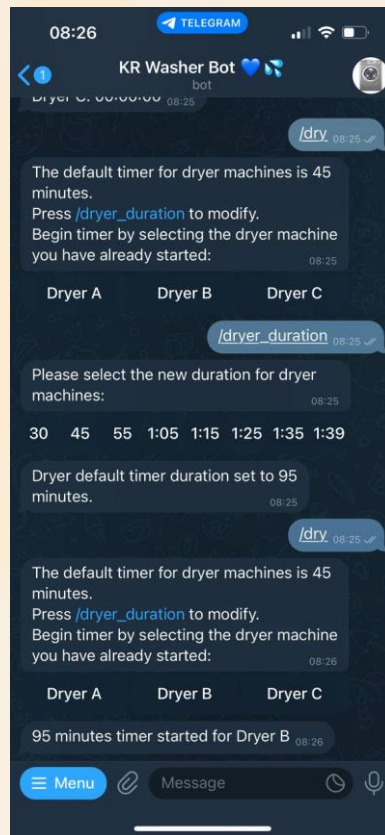
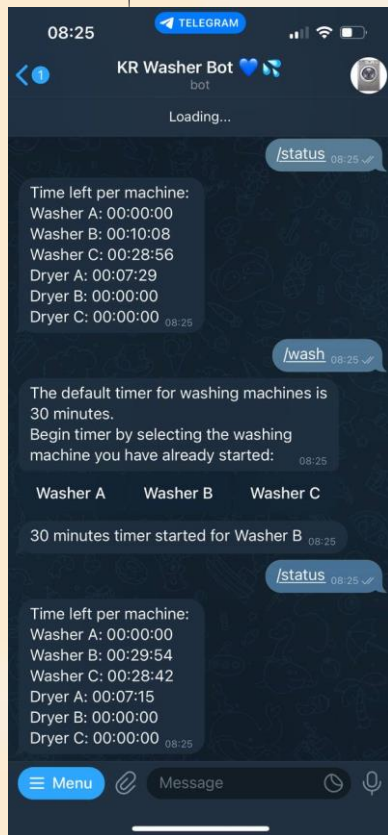
Access the Bot @krwasherdryerbot on
Telegram



04 Demonstration

Usability

Screenshots



Screenshots

Begin 🏠	/start
More about this bot 🤖	/about
Show available commands 🤔	/help
Start a washing cycle timer 💧	/wash
Start a drying cycle timer ☁️	/dry
Cancel a machine's timer ❌	/cancel
Check all machines' status 👁️	/status
Modify dryers' duration ⚙️	/dryer_duration
Reset settings 🦴	/reset

KR Washer Bot 🤖

bot

The default timer for dryer machines is 45 minutes.
Press `/dryer_duration` to modify.
Begin timer by selecting the dryer machine you have already started: 8:34 AM

Dryer A Dryer B Dryer C

/dryer_duration 8:34 AM ✓

Please select the new duration for dryer machines: 8:34 AM

30 45 55 1:05 1:15 1:25 1:35 1:39

Dryer default timer duration set to 99 minutes. 8:34 AM

/dry 8:34 AM ✓

The default timer for dryer machines is 45 minutes.
Press `/dryer_duration` to modify.
Begin timer by selecting the dryer machine you have already started: 8:34 AM

Dryer A Dryer B Dryer C

99 minutes timer started for Dryer C 8:34 AM

/reset 8:34 AM ✓

Default durations have been set. 8:34 AM

/dry 8:37 AM ✓

The default timer for dryer machines is 45 minutes.
Press `/dryer_duration` to modify.
Begin timer by selecting the dryer machine you have already started: 8:37 AM

Dryer A Dryer B Dryer C

45 minutes timer started for Dryer B 8:37 AM

Menu Write a message...

05

Future Improvements

New Functions



Future Plans



Notifications Upon
Completion



Expansion to Other
Halls

06

Conclusion

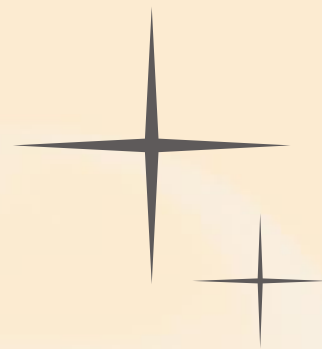
In a nutshell



KR Washer Bot Best* Bot



*Personal Opinion



Thank You

