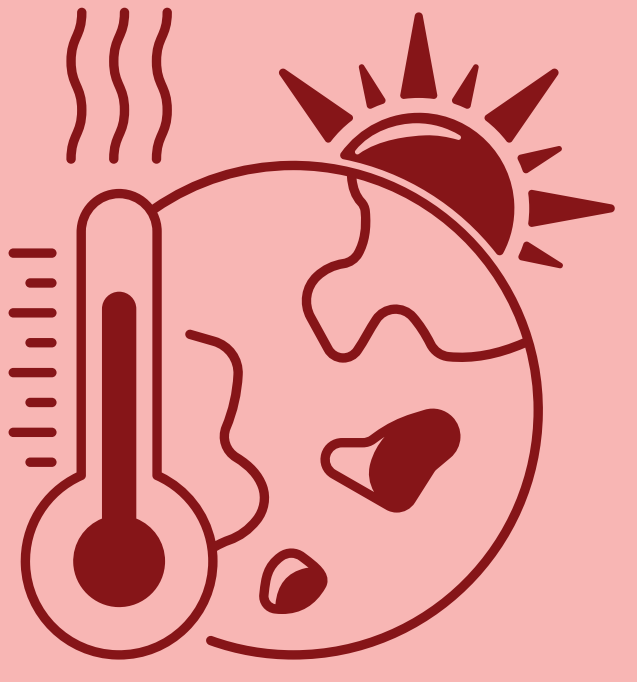


Real-time Data Analytics for Heat Wave Adaptation

To what extent can real-time data analytic technology be an adaptation tool to acclimate to the repercussions on human health from heat waves ?

1. INTRODUCTION

Global Warming



20 days in a year over 30°C

Heat and Health



heat waves cause serious health problems and lower academic acumen

Technology



life saving advice during heatwaves improve future academic life educating society

2. METHODOLOGY

SURVEY



26 students

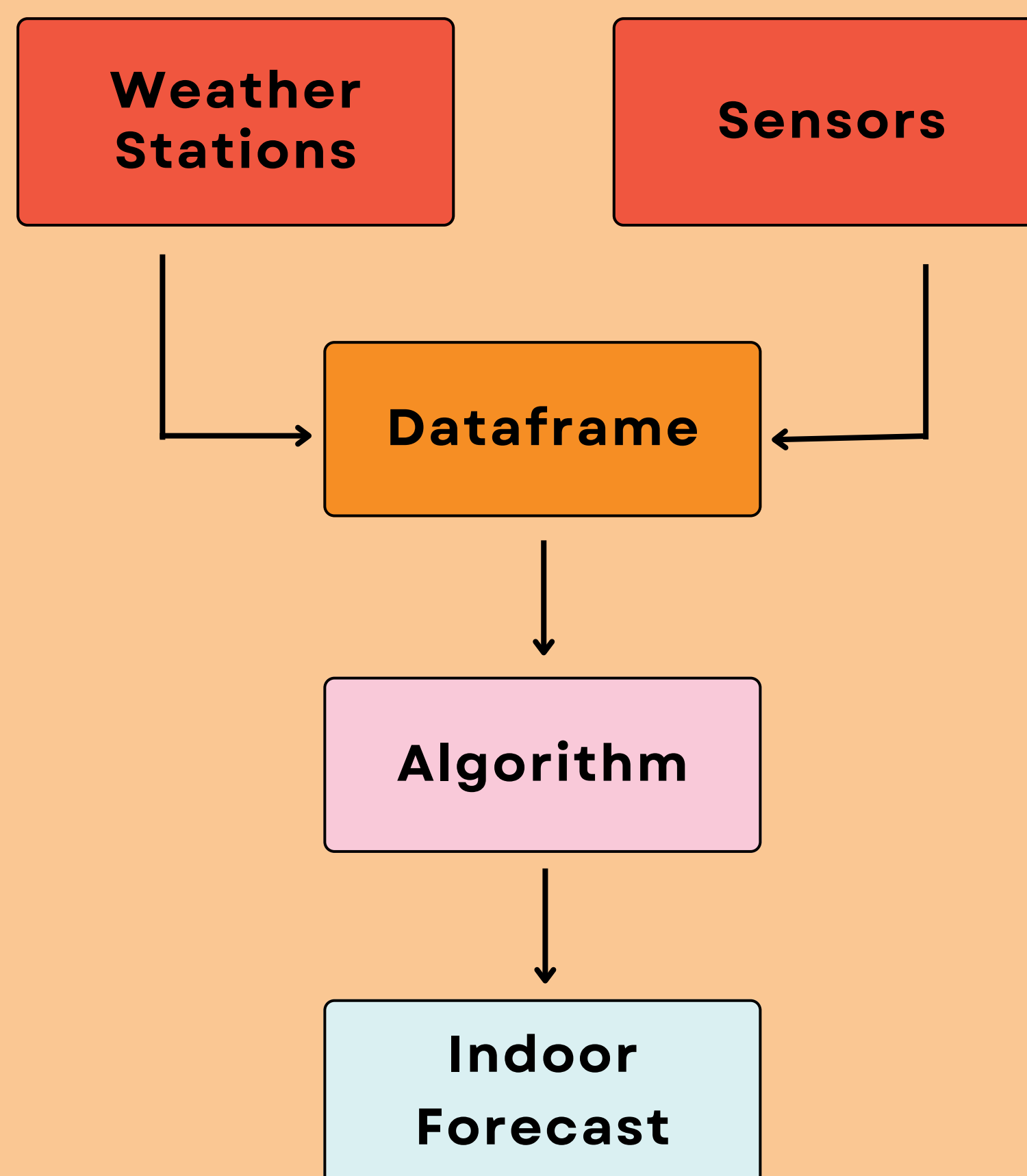


7 Questions



Thematic coding of responses

MACHINE MODEL



3. RESULTS

SURVEY

- **Positive attitude** towards tool
- **Heat stress symptoms**
 - Cognitive fatigue
 - Dehydration
 - Sweating
- **Reminders**
 - Drink water
 - Forecast
 - Facilities and amenities
- **Student life**
 - Lifestyle
 - Study related
- **Additional features**
 - Graphics
 - Design

QUANTATIVE DATA

- **Data collection**
 - Student areas
- **Results**
 - no big variation or high temperature
- **Explanation**
 - some rooms less susceptible to heat
 - data not collected in the summer
- **Future Implications**
 - more extreme projections for 2050

4. IMPLEMENTATION

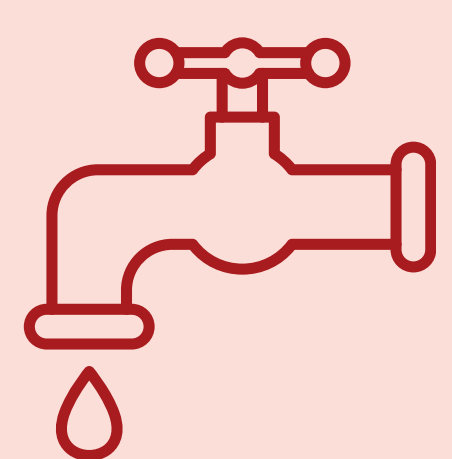
H.E.A.T APP



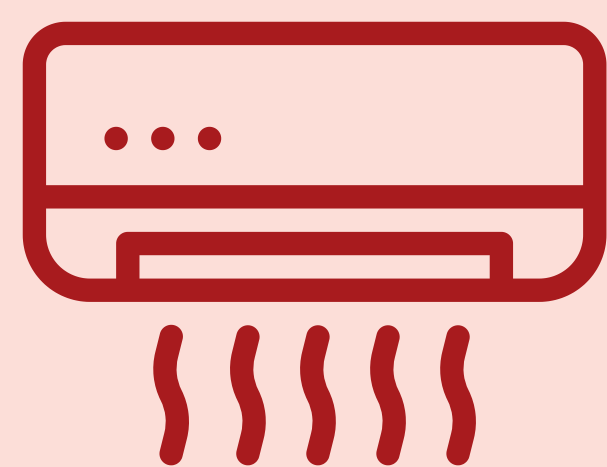
Push-notifications



Faculty specific advice



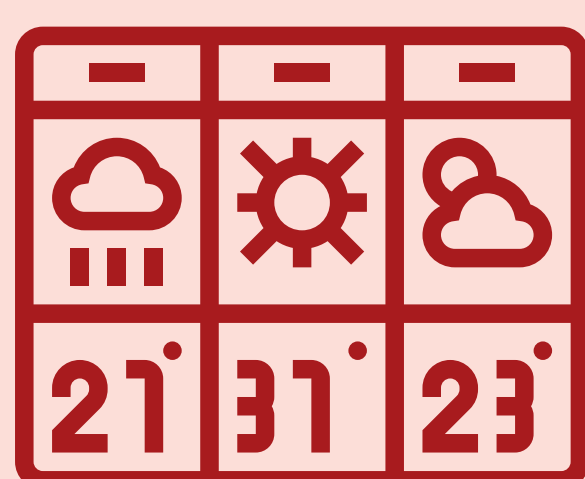
Water fountain map



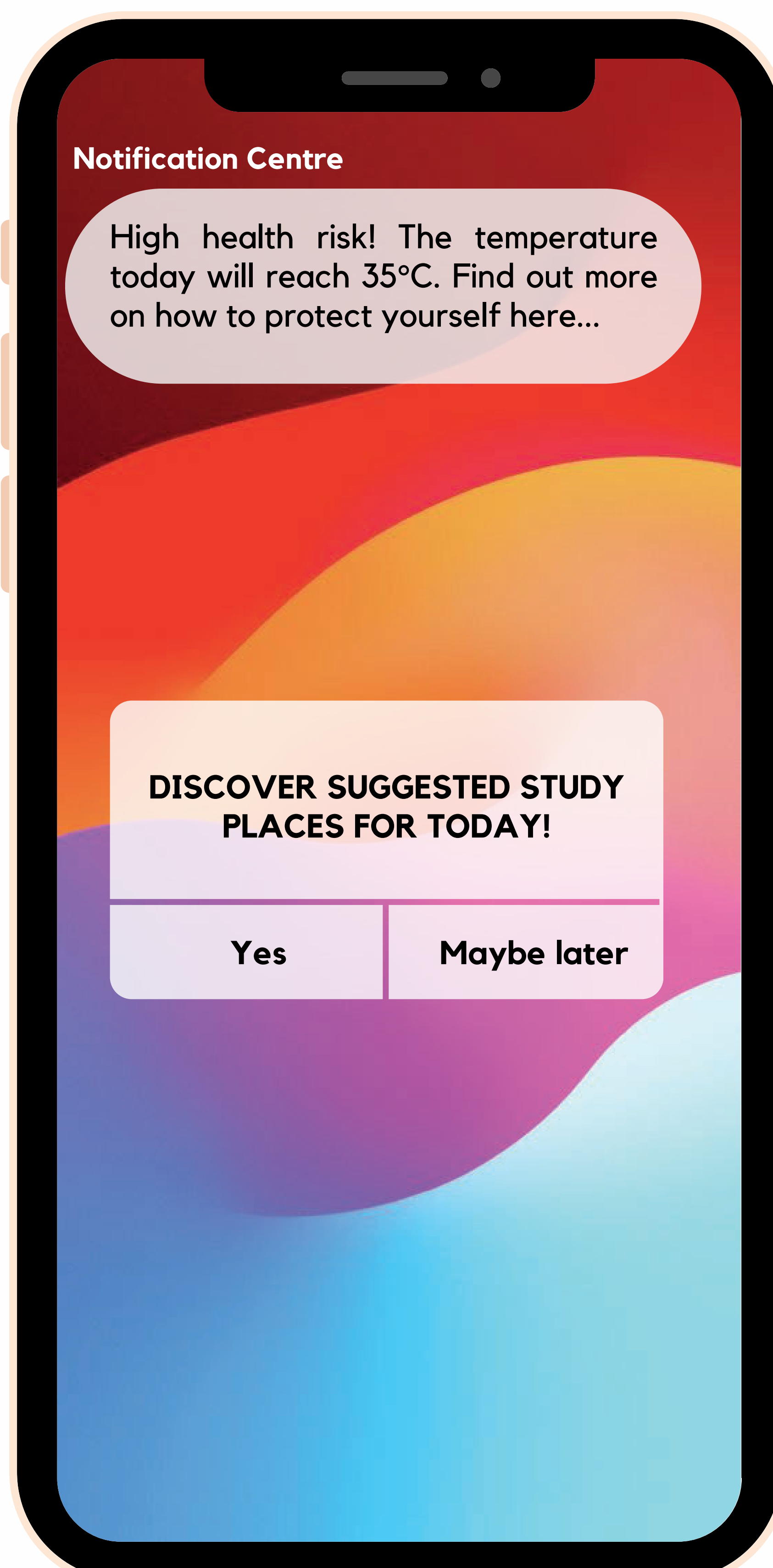
Study rooms with AC



Tutorial scheduling



Heat wave warning system



5. FUTURE OUTLOOKS

- 1 Extend project to other regions
- 2 Cooperate with weather stations
- 3 Agreements with institutions
- 4 Research other demographics