WORK AGREEMENT – UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB)

Between Team 8 And CS499

APPLICATION DEVELOPMENT

This project agreement describes the understanding Team 8 and CS499 have concerning infrastructure development and installation, initial data setup and migration, customization, deployment, and support of application, or add-on features for a Smart Home System.

This signed agreement hereby authorizes work to begin on the project based on the negotiated start date, and will remain in effect until the product is presented.

TECHNICAL SPECIFICATIONS: PRIMARY DELIVERABLE

APPLICATION DELIVERABLES

Overall application purpose: Allow user to access smart home system features from anywhere via webapp.
To include: webapp, database

Deliverable Overview: (Appendix A)

List the deliverable functionality:
- display:
  - sensor status (current)
  - temperature
  - utility usage/cost: 3 month historical
  - current month projection
- control state:
  - lighting
  - temperature
- diagnostics:
  - lights
  - tvs
  - windows
  - doors
  - water
- simulation:
  - sensor status change

Roles/Security:
- *Not needed*

Application Screens: (Appendix B)

List the screens that will be included with descriptions:
- Screen 1: floorplan, thermostat
- Screen 2: multi-line graph – utility usage and cost
- Screen 3: simulation – scenarios to predict usage

Reports:
- *Not Needed*

PROJECT TIMELINE

Project Timeline Milestones (Proposed)	Estimated Start Date	Estimated Completion Date
Requirements and Specifications	1/28/22	2/11/22
Work Breakdown Structure	2/11/22	2/18/22
Wireframes	2/18/22	2/25/22
Class Diagrams	2/18/22	2/25/22
Database Design	2/18/22	2/25/22
Application Design	2/25/22	3/4/22
Implement backend	3/4/22	4/1/22
Implement frontend	3/25/22	4/15/22
Deploy	4/20/22	4/20/22

Note: Any change in scope including additional deliverable components, and/or other requirements will be re-scoped and submitted as an addendum or new agreement.

STRUCTURE AND OVERSIGHT

STATUS REPORTING

TERMINATION OR REVISIONS

A. Modifications will be reflected by signed addenda to this document.
B. This document may be modified only in writing signed by all parties.

This project agreement becomes effective on date of Business Owner signature.

BUSINESS OWNER

By_____   Date _____

Name_____   Title_____

TEAM 8

By_____Danny Do_____   Date _____02/09/22_____

Name_____Danny Do_____   Title_____Developer_____

By_____Michael Hurt_____   Date _____02/09/22_____

Name_____Michael Hurt_____   Title_____Developer_____

By_____Mallory Merkel_____   Date _____02/09/22_____

Name_____Mallory Merkel_____   Title_____Developer_____

By_____Eugene Wu_____   Date _____02/09/22_____

Name_____Eugene Wu_____   Title_____Developer_____

By_____   Date _____

Name_____   Title_____

APPENDIX A

APPLICATION DESIGN

Application design details are found in the following documents:

https://gitlab.cs.uab.edu/CS499S2022/Team8/Home_IoT/blob/master/refs/design_details/database_erd.pdf
https://gitlab.cs.uab.edu/CS499S2022/Team8/Home_IoT/blob/master/refs/design_details/pseudocode.pdf

APPENDIX B

APPLICATION SCREENS

Application screen wireframes are found in the following documents:

https://gitlab.cs.uab.edu/CS499S2022/Team8/Home_IoT/blob/master/refs/wireframes.pdf