SE 4352
Software Architecture and Design

Fall 2018 Project

Overview

- Develop a Software Architecture Document
- Smart Home Application System
- High Level Requirements
  - Wireless/wire network
  - 24/7 availability with minimal downtime
  - Security mechanism
  - Context sensitive
  - Personalized experience for each home occupant
  - Inputs/Commands
    - Cell phones, PDAs, PCs, Sensors, Detectors
  - Communicate with external related system
  - Data storage and analysis
  - Plug and play
  - Event driven rules allowed
  - Time & Situation aware
  - Reminders to occupants

Project

- Teams of up to 4 students
- I will assign you to a team if you are not on a team
- Part One is a Requirements Document
- Part Two is a Software Architecture & Design Document
- See syllabus for due dates

Next Step

- Thursday September 6th – Requirements Elicitation during class…**COME PREPARED**!!!
  - ☐ Utilize your SE (3354) skills, capture functional and non-functional requirements
- Requirements Specification Document Details – Phase I
  - ☐ Electronic via eLearning
  - ☐ Only one person on team submit
  - ☐ Cover page must have ALL student names
  - ☐ Include project description and the captured requirements
  - ☐ PDF or .DOC file
  - ☐ Document contents format is up to you
  - ☐ Maximum of 6 pages, minimum of 3 pages single spaced
- YOU WILL USE THIS DOCUMENT FOR PART TWO
  - ☐ Doing incomplete job will make part Two HARDER!!!

Software Architecture Document

- Requirements Specification Document Details – Phase II
  - ☐ Electronic via eLearning
  - ☐ Only one person on team submit
  - ☐ Cover page must have ALL student names
  - ☐ Can be turned in early
  - ☐ PDF or .DOC file
  - ☐ Document content guidelines and template examples in Project folder on eLearning
  - ☐ Document contents format is up to you
  - ☐ Maximum of 20 pages, minimum of 16 pages single spaced

Presentations

- Make a five to seven minute presentation of your project in class (Thursday 11/29/2018, Tuesday 12/04/2018, Thursday 12/05/2018).

- Attendance will be taken on all days

- A zero will be assigned to any student absent under normal circumstances.

- The presentation should introduce your project and provide details about the architecture chosen by the team.

- Teams will be chosen randomly via a drawing.

- Project presentations can be uploaded to the 4352_Project_Presentations placeholder folder on the course homepage.