ILLINOIS INSTITUTE
OF TECHNOLOGY

Transforming Lives. Inventing the Future.
www.iit.edu

SOFTWARE ENGINEERING
CS 487

Prof. Dennis Hood

Computer Science

Team Project Description

Customer Request

- Problem statement
  - Design and prototype a "Student Assist" app
    - The app should make life better for students (in specified ways)
    - Focus on awareness – the app should be aware of challenges facing the student, and the student should be aware of risks and actions which will mitigate them
    - Focus on automation – sense, process, act
  - Work to make deliver high quality for your users:
    - Of Use – both valuable and usable
    - Robust, portable, scalable, evolvable, etc.
    - Secure – maintain privacy and integrity
- Improvement opportunities
  - Collaboration and socialization – help students connect
  - Health and safety – improve student wellness
  - Job search – help students jump-start their career
  - Assignment/time management – help students focus

Deliverables

- Analysis report (4 pts, 5/30)
  - User Analysis and Requirements Spec
  - Test Plan
- Design report (4 pts, 6/13)
  - High-level Design (System and Data Models, etc.)
  - UI screen prototypes in support of workflow model
  - Pseudocode of key features and exception handling
- Final Reports
  - Individual Assessment (3 pts, 6/23)
    - Analysis of team performance
    - Description of improvement opportunities
  - Team Final Report (4 pts, 6/23)
    - Prototype materials
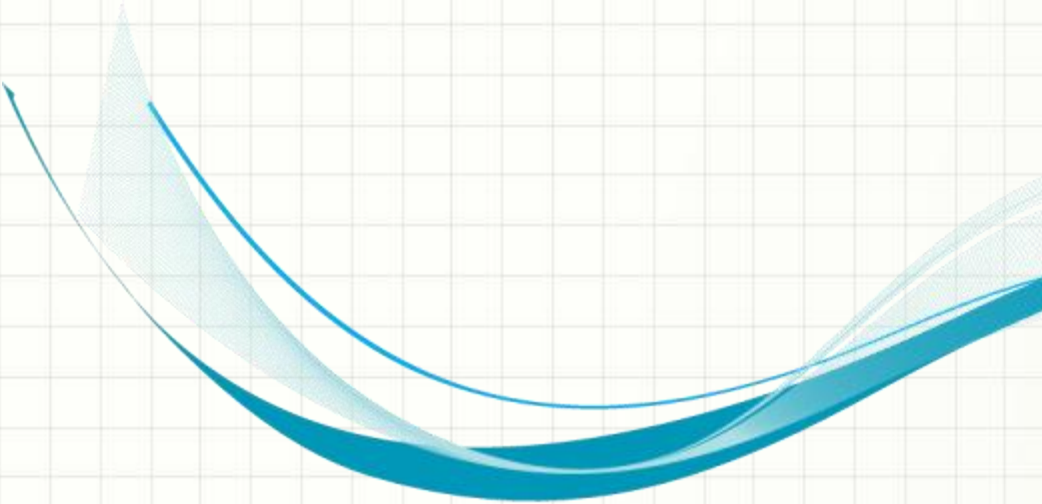   - System documentation
    - Test results

Working Prototype

- Demonstrate the capabilities of your system
  - Present a "walkthrough" of your system
  - Show "fitness" with respect to test plan
  - Platform, language, etc. are up to you
  - It is expected that it will not be a "finished product", so it is OK if elements are incomplete

User Analysis and Requirements Spec

- Document essential information regarding the users and their needs
  - Describe categories of users and the characteristics which uniquely identify each
  - Show the interactions between users and the system
  - Identify the critical pieces of data and how they relate to the identified user interactions
- Document the requirements
  - Functional, non-functional, environmental, etc.

Test Planning

- Describe your approach for verifying proper implementation of each requirement
  - Traceability
  - Scenarios and test cases
  - Usability
  - Exception handling

Team Rosters

Team S1

- Chauhan, Kshitij
- Depala, Rajeswari
- Gotti, Bala Yaswanta
- LNU, Ankit

Team S2

- Cole, Zakary
- Farrington, Evan
- Langdon, Deshon
- Wijaya, Hendra Anggrianto

Team A1

- Cieciura, Kamil
- Huang, Jackson
- Manthy, Ryan
- Purad, Amit Shivaraj

Team A2

- Cook, Andrew
- Hussain, Junaid
- Mocha, Christopher
- Sheth, Navya

Team A3

- Deifel, John
- Le, Thien
- Nguyen, Ky
- Velazquez, Jiovanni

Team A4

- Felgenhauer, Dylan
- Linero Olivo, Jose Antonio
- Prabhakara Narasimha, Amith Gorthi Sriniva
- Wu, Yuexi

Team A5

- Arawat, Spoorthy
- Tran, Khoa
- Veladi, Jaya Lakshmi
- Zhu, Zhiyi

Team B1

- Cao, Wei
- Lin, Weiming
- Xu, Zhisheng
- Zhang, Xiang

Team B2

- Dan, Xianyu
- Ou, Zirui
- Zeng, Chengxin
- Zu, Cong

Team B3

- Feng, Hang
- Wang, Danian
- Zhang, Zhenya