

IPRO 305 - Spring 2006 Goals and Structure

Purpose

The purpose of this document is to define goals that the IPRO 305 team wishes to accomplish for the Spring semester of 2006 and the outline of teams that will accomplish these goals. At a later date a document will be produced detailing the exact requirements of each goal, build milestones (if necessary for a particular goal), and due dates. Outlining goals and team structures is very important to ensuring that the IPRO is kept on track and accountability is maintained.

General

In accordance with last semester's IPRO, Fall 2005, there will be three main teams: User Experience (UX), Hardware Integration (HI) and Software Development (SD). Every person on the IPRO with the exception of the IPRO Leader will be a member of exactly one team. Participants can choose to help out another team as long as his/her assignments are fulfilled for his/her primary team.

In addition to the three main teams, various executive committees may be formed to perform tasks that do not fall within the tasks defined by the three main teams. The majority of these committees will be formed to deal with, for lack of a better term, IPRO crap (such as the Presentation, Booth Preparation and so forth).

Each team and committee will have a leadership position to manage the team/committee and provide a means of communication to the IPRO Leader. The leaders of each team and committee are ultimately responsible for all tasks assigned to that team or committee and it is their responsibility to responsibly and appropriately delegate tasks to their team/committee members. Furthermore, it is their responsibility that all goals are to be completed on time.

Grading

Each team member will be graded on the following criteria:

- Completion of tasks on time.
- Quality of work as perceived by teammates, team leader and IPRO leader.
- Communication.
- Quantity of work (how many teams/tasks assigned and completed)
- Attendance

There is no set formula or point system or anything like that, but rather these four attributes are to get a feel of how "vital" each member was to the team. Obviously if the team does extremely well (sponsor is happy, winning multiple IPRO day contests, etc.) there will be more good grades to hand out. Each member, team leader and committee

leader will be asked to fill out an evaluation pertaining to these four topics upon completion of the semester.

User Experience Team

The User Experience team is responsible for the design and content of everything that the user can see, hear or interact with. The previous semester's UX team produced a user interface, color scheme and content for the IIT campus. This semester's UX team's goals focus mainly on improving the application as well as automating the content creation steps.

Goals

1. Investigate with the SD team how feasible it is to use Text-to-Speech converters, with an emphasis on if the user will feel OK with it as opposed to a real human.
2. Discover and obtain the content necessary for a Chicago tour.
3. Work with sponsor and SD team to refine the GUI if needed (Colors, text, size, etc).

Hardware Integration Team

The Hardware Integration team is responsible for combining the Segway and computing solution. Last semester's IPRO found a rugged tablet capable of being mounted to a Segway that was bright enough for outside conditions and touch screen. However, the cost was enormous (\$4000 for the tablet) and a new solution needs to be found.

Goals

1. Investigate and purchase a new solution that is able to serve the needs of the SD and UX teams for under \$1000.
2. Working with our sponsor to discover and implement a new mounting solution.
3. Investigate why the Bluetooth headset didn't work and procuring a new device if necessary.
4. Obtain a new GPS device for greater accuracy (SiRF device).

Software Development Team

The Software Development team is responsible for all code and software running on the tablet. This involves our custom Java application and the various programs needed by the application (GPS, Ekahau, MySQL, etc.). Last semester produced a fully functional piece of software, but it could still use some tweaking.

Goals

1. Test Location Service/Ekahau more completely. There were some problems on demo day related to the Location Service and the “solution” was to restart everything. Not acceptable.
2. Investigate and implement a Text-to-Speech application with the UX team.
3. Investigate and implement a new mapping engine that will work for Chicago (either custom built or third party).
4. Build an application to allow the UX team to import data easily.

Executive Committees

The following are a list of committees to be formed, and their task(s) should be evident by their names:

- Presentation Committee
- Booth Committee
- Website Committee
- <Generic IPRO crap committee>