



Projects & Evaluation Process

Prof. Giuseppe Riccardi

Dipartimento di Ingegneria e Scienza dell'Informazione

University of Trento

riccardi@dit.unitn.it

Student Evaluation

- Exam Grading
 - Homework + Final Project
- Project Selection
 - Student Proposal
 - Staff Assignment
- Team-up with classmates
 - No more than 3
 - Clear labor division
- Project Reporting
- Evaluation & Grading


Project Report

- Proposal
 - Abstract & Wireframe Prototype
 - Deadline **May 17 2013**
- Complete (Exam)
 - Two-Page Write-up
 - Will provide sample file
 - Description of the project
 - Code snippets in appendix
- Code
- Upload on Course website
 - <https://www.easychair.org/conferences/?conf=lpsmt2013>

Project Topics

■ Category taxonomy

■ Business

- InfoSearch Interactive Agents
- Augmented Reality
- Examples at "unitnchannel" on 

■ Education

- Language Learning, On-Line learning (Math, ...)

■ Finance

- Calculators/Sheets, Wallets

■ Media & Video

- Drawing, Monitoring

Project Topics (cont.d)

- Category taxonomy
 - Social
 - FB, Tweeter, Linkedin, Foursquare,
 - Media Monitoring (polls, etc..)
 - Sports
 - Coaching, statistics, ...
 - Travel & Local
 - Reviews, Tips, Reports..
 - Health & Fitness
 - Pharmacy Locator, Encyclopedia, Q&A,
 - Games
 - Puzzles (tiles), ,

Project Topics (cont.d)

- For more ideas
 - check student projects at www.cs76.net/
 - Market portfolios (Android and IOs)

Report Doc Structure

Two-Page

1. Abstract
2. Related Work
3. Usage Model
4. Architecture Design
5. Implementation
6. Evaluation
7. Limitations
8. Team Members' Contribution
9. Lesson Learned
10. References

Project Selection

- Clearly state what is the app is going to do, the motivations
- Clearly state the user expectation, type and engagement
- Sketch ("wireframe") the app graphical layouts , transition btw activities and modus operandi for a stereotypical user.
- Refine incrementally the app concept
- Generate 150 words description

Report Doc Structure

Abstract (150 words)

What is the problem you are trying to solve, what is your solution, why is your solution a good one, and why would users want to use it?

EXAMPLE 1 : Our app name is MathIsFun. We test users' math skills on different levels for basic and advanced operations (+, -, /, *, trigonometry etc..). We score each users for each math test sessions and generate a report to be shared with teacher or anyone. We make the sessions fun by giving feedback to the user on their performance, tips and motivate them with verbal or visual feedback. User groups may range from first grades to high-school students. Teachers and students are the intended recipients of the reports for evaluation and student progress tracking.....

Report Doc Structure

Related Work (50 words)

What have others done that is similar or related to your project? What similar applications are there?

It's ok if you take similar applications and rework them changing their design/functionalities (e.g. Yet-another-microblogging-app)

What related applications are out there (not only mobile devices as well as desktop) ? Include citations for related work, which should include URLs if available. The citations and URLs should appear in a list of references at the end of the report.

Report Doc Structure

Usage Model (200 words)

Describe how a user is going to use your system. Think about this as like a user manual but not too much!. Goal and usage of the app should be clear within a few minutes. Describe the system from a user's perspective.

Report Doc Structure

Architecture Design (150 words)

Present the detailed design of your system. What key assumptions are you making about your system or the environment in which it will be used? What justification do you have for those assumptions being reasonable? What are the components, how do they fit together and talk to one another? Which protocols or platform features are you using?

Report Doc Structure

Implementation (150 words)

Which parts of your system are implemented? How were they implemented? What tools did you use for doing the implementation?

Report Doc Structure

Evaluation (150 words)

What kind of testing have you done to validate your system? Have you tested on a real device or the emulator or both? What kind of optimizations did you do? Did real users try the system? What was their experience?

Report Doc Structure

Limitations (50 words) Optional

Describe any limitations with your design and implementation of the system.

Report Doc Structure

Team Members' Contribution (50 words)

Describe the contributions made by each team member to the project. Be specific and describe actual functions implemented by each team member, as well as the number of lines of code implemented by each team member.

Report Doc Structure

Lesson Learned (50 words). Optional

What did you learn? How would you do things differently if you did the project again?

References (50 words). Optional

Provide a list of references cited with complete bibliographic information including URLs where available.

Project Proposal Submission

1. -Will provide a superset of project topics to choose from
2. -Will accept proposals (use project form for submission) to be reviewed and approved
3. The proposal requires filling the "abstract" part of the project description
4. **DEADLINE** 17/5/2013

HomeWork

1. Required Completion to register for exam
2. Multiple tasks
 - Questions
 - Answers
 - Evaluate Questions
 - Evaluate Answers

HomeWork (cont.d)

- Question about the lecture and its related topics
- You will submit a question about a given lecture
- Anything related to the topic that has been discussed or related

Question Examples

- "How often Android OS gets updated ?"
- "Which version of the OS should I develop my app for ?"
- "How to avoid getting the Application not responding dialog?"
- "Prof. Rossi said "green ideas runs faster than tomatoes", what did you mean by that ?"
- Con riferimento alla slide 31 della lezione APPLICATIONS-1, che tipo di informazioni posso inserire nella classe R?

HomeWork (cont.d)

- Can be as detailed as referring to a piece of code
- Can be as specific as a comment to what the lecturer said
- Can be as broad as a methodological approach

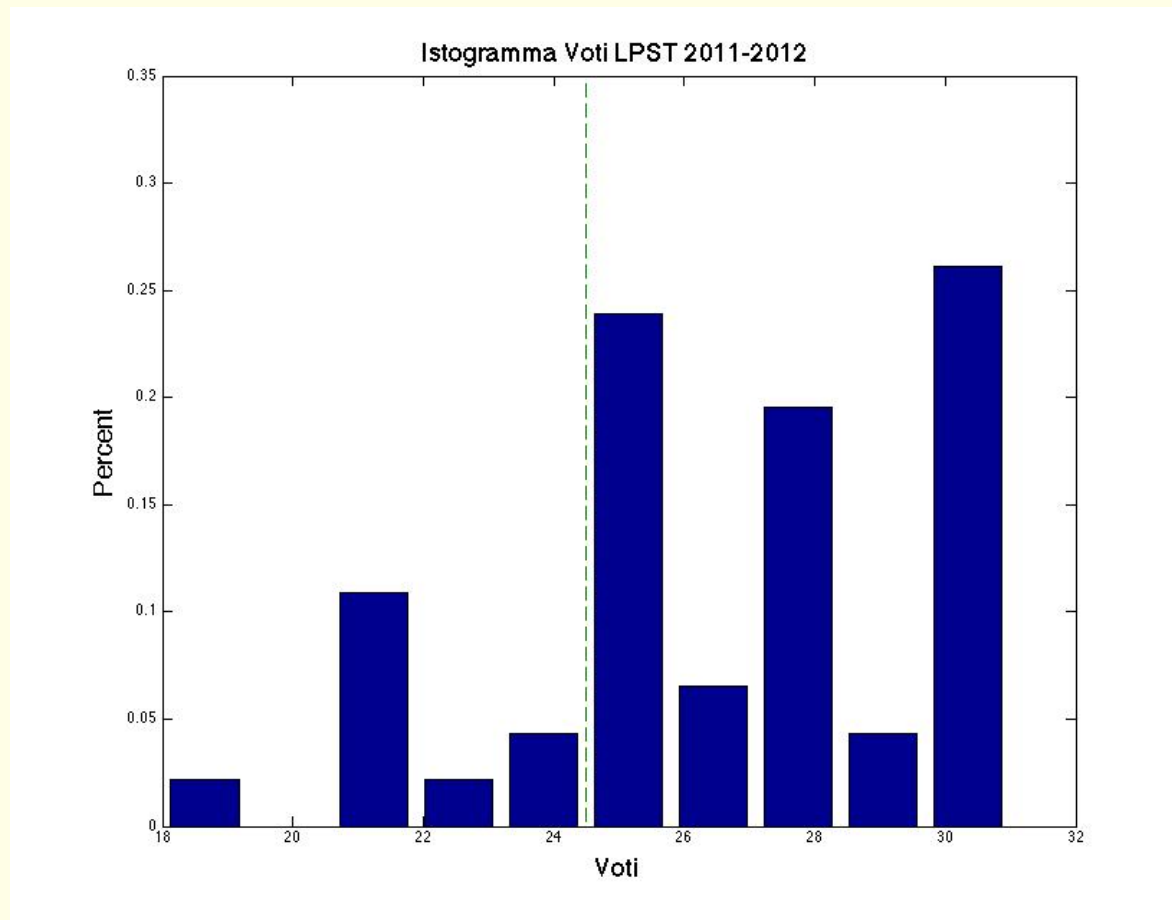
"How many users should I test my app with ?"

"When should I use text input and/or speech ?"

Deadline will be associated to a task

Grading

- What happened last year (2012)



Best Project/Grade (2012)

- Project Proposal
- Project Description
- Presentation

Grading

1. Homework (PASS / NOPASS)
2. 30% Project Report discussion
3. 70% (Usage Model/Architecture Design/Implementation)