Project Revisions Overview

Initial Project Revision - preliminary insights over chosen open-source software architecture

- On Nov. 9th we will have our 1st project revision!
- Prepare a presentation:
  - 20 mins including questions
  - You will HAVE TO expose, at least:
    - (a) Preliminary thoughts and insights over SA, The architecture and organisational structure of the community and product;
    - (b) The properties and visible features of the architecture (Overview of Open Issues, focus on arch. Issues (if any);
    - (c) The limitations and shortcomings of that product, how to install/interact with it (e.g., Challenges in community participation);
  - You MAY want to use the concepts and notations we used up to this point;

Intermediate Project Revision - draft of software architecture documentation

- On Nov. 27th we will have our intermediate project revision!

- Prepare a presentation:
    - 20 mins including questions

- You will HAVE TO expose, at least:

    - The architectural structures that you could see;

    - The decisions that were taken over the time of your study and the properties that these decisions imply and your rationale over these;

    - The style and provide a rationale for that style or elaborate if/how other styles apply;

    - An overview of the technologies involved and notations that describe the software architecture;

- You MAY need/want to use the concepts and notations we have studied up to this point;
- You MAY need/want to use an architectural reverse engineering tool (e.g., MoDisco, Architexa, VisualParadigm, etc.);

Advanced Project Revision - if it were my product… what would I do with it!

- On Monday Jan. 15th we will have our last project revision!

- Prepare a presentation:
  - **20-30 mins including questions**

- Applying all the insights that you learned across the course, You will HAVE TO at least:
  - Evaluate the architecture that you have studied, contributed to and described with respect to what you would do to it as a software architect (e.g., exercise ATAM or ADD);

  - What would you evolve/change and how (i.e., prepare an Architectural Improvement Plan);

  - What feature would you expose more prominently and how;

  - What property would you analyse and how;

  - What decisions would you revise and why;

  - Once revised, how would you change in the architecture to reflect change;

  - What other technologies would you adopt/embed in the product and why;

- You MUST use the concepts and notations we have studied up to this point and represent them in PDF hand-in of (at most) 10 pages, including diagrams, their description, views, viewpoints, notations, etc.;

NOTE: The hand-in will be evaluated against the criteria above for correctness (everything is correctly mapped in the hand-in and reasonably argued) and completeness (every item of the above list is addressed exhaustively)

- You MAY need/want to use an architectural reverse engineering tool (e.g., MoDisco, Architexa, VisualParadigm, etc.);

NOTE on Evaluation Extra's

- *Fool-of-a-Too(l)k(it)!* ***+1****:* bug-hunting + patching of open-source project issue, documenting the process;
- *Bilbo Bug-gins!* ***+2****:* bug-hunting + patching of open-source project software architecture issue, documenting the process;
- *Gandalfeat!* ***+3****:* address a feature request, implement resolution, document the process;
- *AraGone!* ***+4****:* propose architecture change, implement & merge change, document the process;
- *FroDone!* ***+5****:* re-documentation of entire architecture through reverse engineering + document the process;

All of the above need to be properly documented in terms of:

- "Before-scenario" – describe how the SA was before you acted and how you addressed the extension (i.e., the process you followed);

- "Current-status" – report the status of your extension, e.g., you made a pull-request and you are pending approval;

- "End-status" – how did the SA change with respect to your extension;

The correct, complete, and well-argued documentation of the above will correspond to the increase in final mark equivalent to the performed extension.