Home
Announcements
Textbooks
Calendar
Syllabus
Assignments
Site Settings
Roster
Mailtool
Gradebook
Library Reserves
Files & Resources
Piazza
Evaluation
Help

Assignments

Viewing assignment...

Settings for "2013 Team Assignment 4: Design and Revised Plan"

Created by	Gail E. Kaiser
Date created	Sep 30, 2013 11:28 am
Open	Oct 3, 2013 12:00 am
Due	Oct 17, 2013 5:00 pm
Accept Until	Oct 17, 2013 5:00 pm
Modified by instructor	Oct 13, 2013 7:42 am
Student Submissions	Single Uploaded File only
Number of resubmissions allowed	Unlimited
Accept Resubmission Until	Oct 17, 2013 5:00 pm
Grade	Points (max 20.0)
Alert:	Yes
Honor pledge:	Yes

Assignment Instructions

Your team design document should consist of a single file uploaded to courseworks plus the specified material entered into JIRA at http://ase.cs.columbia.edu/jira. Only one member of your team should submit the courseworks file (but all team members can edit jira). You may submit as often as you want up to the deadline (Thursday October 17th at 5pm).

The first page of your document should indicate your team name and list the full names and uni's of every team member.

The second page should give a short synopsis (overview) of your proposed project. This can be copied verbatim from your proposal or requirements document if nothing has changed.

The third and remaining pages should present your design and revised development plan.

Create CRC cards, on real index cards, that collectively cover all your high priority user stories. There may be multiple classes for the same user story and/or one class may be relevant to multiple user stories. Then create the corresponding UML class diagrams for these classes. These can be done using a UML editor or with your favorite drawing program. Transcribe the CRC cards into JIRA, linked to their user stories. For each CRC entity, there should be a corresponding class entity with the UML class diagram as an image attachment and the class entity itself explains that diagram in prose; this prose can be omitted if the diagram is self-explanatory and there is nothing interesting to say. There should also be an overview class diagram showing the main relationships among the classes; this can be modularized if a single diagram would be too big or too complicated. You do not need to show trivial operations such as getters and setters.

For each major use case, create both UML sequence diagrams and state diagrams, also using a UML editor or your favorite drawing program. You will probably need multiple sequence diagrams for the main alternative flows, but it may be possible to fit alternative flows into the same state diagram. Modularize as necessary for clarity. Make sure to cover the main responsibilities and collaborations. Create JIRA sequence diagram and state diagram entities linked to all relevant CRC cards; the entities should explain your diagrams in prose, if not obvious; attach the actual diagrams as images. Again, you do not need to show trivial messages such as getters and setters.

As part of the above effort, you should reconsider and revise (if necessary) your technical tasks in JIRA. Update your time estimate (in hours) for each technical task; it is ok to change the pair assignment if warranted. Include the time you spent on the design above plus any additional design time, which should already be more or less complete when you do this, as well as (future) coding and basic testing; we will address more rigorous testing later on. Assume that the implementation (without full testing) must be completed by Thursday, October 31st. With that deadline in mind, revise the schedule and make sure it addresses all dependencies between tasks.

Does everything fit? No? Reduce the scope of your proposed project to fit this deadline. It is ok to modify your user stories and use cases; update JIRA but you do not need to resubmit your previous requirements document.

Finally, transcribe all new/modified materials from JIRA into the design and revised plan document you will upload to courseworks. This is where the labels for your use cases will come in handy, since you can refer to the use cases by their labels rather than repeating them in this document if they did not change. Cross-references to CRC cards should always be done by name, though, since those should all be present in this document.

Additional resources for assignment

- ArgoUML (1 KB; Sep 30, 2013 2:56 pm)
- Modelio (1 KB; Sep 30, 2013 2:56 pm)
- StarUML (1 KB; Sep 30, 2013 2:57 pm)
- Umbrello (1 KB; Sep 30, 2013 2:57 pm)