

COMSW4156\_001\_2015\_3: ADVANCED SOFTWARE ENGINEERING (Fall 2015)

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## Assignments

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<b>Created by</b>	Gail E. Kaiser
<b>Date created</b>	Sep 27, 2015 3:02 pm
<b>Open</b>	Sep 29, 2015 12:00 am
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<b>Accept Until</b>	Oct 7, 2015 11:55 pm
<b>Modified by instructor</b>	Sep 29, 2015 10:24 am
<b>Student Submissions</b>	Single Uploaded File only
<b>Number of resubmissions allowed</b>	Unlimited
<b>Accept Resubmission Until</b>	Oct 13, 2015 11:55 pm
<b>Grade</b>	Points (max 10.0)
<b>Alert:</b>	Yes
<b>Honor pledge:</b>	No

#### Assignment Instructions

Get together with the other members of your entire team (in most cases 4 students).

Your company, consisting of your team, has received seed funding from an angel investment firm named "ASE, LLC" to invent and develop a software application, with the goal of eventually deploying it commercially. ASE does not have any particular product in mind, except that it must satisfy the non-functional requirements that it is implemented primarily in Java using the Play framework and supports multiple simultaneous users. The users might interact directly - communicating, cooperating, competing - or might just share some portion of the application state.

Your first milestone is to develop and submit functional requirements for your proposed application, in the form of a collection of user stories for Version 0.1. Version 0.1 should be sufficient to demonstrate the idea for your product, but does not need to be "complete".

Submit on courseworks (per team) a document with the following contents:

page 1: Team name, and full names and unis of all members of the team. This should be on a separate page, do not start the material for page 2 on the same page.

pages 2: Write a header "Synopsis" at the top of page 2. Then briefly describe your idea for the application, including who are the target users and what value your application will provide to those users. This should be only 1-3 paragraphs, and fit in the single page.

pages 3 to N: Write a header "User Stories" at the top of page 3. Then write all your user stories for Version 0.1. Remember each user story should consist of a title and a short description, no more than 3 sentences. Use the "AND" rule to break up user stories that are too large. All your user stories should be baseline, meaning they are necessary for your application to be demonstrated. (You will add more functional requirements for later versions.)

Your document can be either MS Word, or equivalent (.doc), or Adobe pdf.

In addition, for each user story in your document, create a "user story" issue in JIRA that is verbatim the same. (Your JIRA user story issues will almost certainly diverge later from what you originally wrote, that's ok, just make sure they start the same.)

*How do we know when we're done?* When you have written a rock-solid proposal that impresses ASE and convinces their angel investors that they will soon receive a large return on investment. Just kidding. For now, make sure your JIRA and courseworks user stories match verbatim, and are sufficient (after implementation) to demonstrate the value your target users will obtain from your application.

After initial submission, every team will be assigned a specific IA. Your IA will provide advice as the representative of ASE, but will not provide you with specific functional requirements. Your team should meet with your IA as soon as possible after the initial deadline, as you will have one week to make revisions; make sure to submit *something* by the initial deadline, even if you do not think its very good. If you have trouble using JIRA, meet with any IA for help (except contact Georgios about any "I can't login" or "I have read-only access but cannot write" problems).

Sample proposals from previous years are attached. The assignments for the previous years required all projects to use a data API and to indicate which programming language and framework they would use. You are not required to use a data API (but you can if you want to) and you must use Java and Play.

#### Additional resources for assignment



[Java Proposals from 2013 and 2014](#) ( 567 KB; Sep 27, 2015 3:05 pm )



[Non-Java Proposals from 2013 and 2014](#) ( 2 MB; Sep 27, 2015 3:05 pm )

CourseWorks runs on Sakai[2.9-COLUMBIA (2016\_3-1830) - kabocha-cj], set to EST.

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