



KTH / KURSWEBB / INTERAKTIONSPROGRAMMERING (DH2641) / VT 2015 IPROG15 / FINAL PROJECT DH2642

Final project DH2642

Goals

- Give the students the possibility to practice the basics of well-architected GUI programming by practicing the Model-View-Controller paradigm on a larger task that includes real data and persistence.
- Let the students practice interactive software development in a group and reflect on the experience.
- Let the students feedback on each others work and practice implementing the feedback.

Assignment

The assignment is to work in group of **max four**. You should register your project group [in Bilda](#). As a group you should implement:

- your own idea in which case you have **till 11th of Mar** to send description of your idea to fkis@kth.se
- **OR** one of the [proposed ideas](#)

The implemented solution should:

- consist of **several different views** of the same model
- have **interaction** on the model data including the possibility to change the data (not only display it)
- use a front-end framework (e.g. [Angular](#), [Backbone](#), [Ember](#), [Meteor](#)) in case of web solution that supports some MVC (or similar) architecture, or Java FX in case of Java. Android by default supports MVC
- use some external data through REST API (in case you are working on proposed ideas, you will have to extend the ideas to support this)
- persist the data either by using an API that supports it (e.g. [Firebase](#)) or by having a minimal backend (we will not evaluate the architecture of the backend)
- in case of your own project idea, make sure it is complex enough so that the work can be split between the group members

You can develop the project using one of the following technologies:

- HTML + JavaScript
- Java FX
- Android
- Any other technology, but in that case you should check with us first **till 11th of March**

The project should be complex enough that the work can be split between the group members.

You should [use GitHub](#) to share the code among the team members. We will use the commit history to evaluate contributions of different team members.

At the mid-point of the project development (latest by **17th April**) you are expected to **make a screencast** of your solution and post it to the course news feed. It does not mean your solution should be working perfectly. You can have bugs and simulate or explain verbally the features that are not yet implemented. The goal is to gather feedback from people that are not part of your team (other group members). Furthermore, each group member is expected to feedback **two solutions (screencasts)** of other groups.

We advise you to take individual notes on what you're working on, what issues you have and how you solve them. This will help you to prepare the individual reflection that you will need to submit at the end of the project.

Grading criteria

Good architecture implies:

- views are separated from each other
- a view that repeats in several graphical scenes (e.g. android Activities) are not repeated (same code in two place) but is coded only once and then reused
- similarly, it's interaction (controller) is not repeated
- views are separated from the model and views do not change the model directly
- model imports no graphics

- the framework used is applied correctly (according to framework's methodology and guidelines)

Working project with high usability and good architecture: A

Working project with high usability but architectural issues: B

Working project with good architecture and usability problems: B

Working project with usability problems and architectural issues (or major usability problems): C

Project with minor bugs but good architecture: D

Project with minor bugs or achitectural flaws: E

Project with major bugs or major architectural flaws: Fx

Share screencast by 17th April

You should make a screencast of your current state of the developoment, upload it to some online service ([YouTube](#), [Vimeo](#), [Flickr](#), etc.), and **share it in the course news feed in KTH Social**. The screencast should:

- Give the overall idea of your application
- Demonstrate the implemented features
- Simulate the features you still plan to implement
- Be in english

There are various free tools ([screenr](#), [screen-o-matic](#), etc.) you can find for doing a screencast. If you are doing mobile application, it is enough to just record the video with another phone/camera.

Provide feedback to others' screencasts by 24th April

Each group member should feedback at least 2 screencast from other groups. Provide feedback as comments on the respective news post in KTH social. The feedback should:

- Be respectful towards the group work
- Focus on layout and interaction
- Apply HCI evaluation metodology (e.g. [Nielsen's heuristics](#), [Shneiderman's golden rules](#), etc.) that you learned in basic HCI course
- Provide suggestions for improvements

Project demo (date to be defined, but somewhere close to 15th May).

We will select several projects (one week before) to present their work to the class. The groups that are selected will be asked to demo their work, talk about challenges and how they addressed them and any other experiences they had during the development.

The students that present will not be required to submit the individual self-reflection and will get a small reward for their extra effort.

What to deliver by 15th May

The group delivery should be uploaded to **Bilda assignment: [Project - group delivery](#)**:

1. Name of the group participants and personnummer
2. Link to your GitHub repository
3. If there is a executable (compiled) version of application commit/upload it as well

Each group member (**unless** they have done the project demo) must wite a 250-word *individual reflection* (plain text) to **Bilda assignment: [Project - individual reflection](#)** including:

1. Your GitHub username
2. Name and role of the classes, methods or layout code you have written
3. How did integration of the code with the others' code work
4. General reflections on the group work experience, process, etc.

Visa tidigare händelser (7) >



Magnus Westlund kommenterade | 10 mars 10:39

Hi, I'm looking for a group aswell! Like both designing and programming. Also know a little about back end, but it would be cool to use a fun already existing api to work with as well
Email me: mwestlu@kth.se .

... eller skriv ett nytt inlägg

Alla användare med KTH-konto får läsa.

Senast ändrad: 2015-03-06 14:33. [Visa versioner](#)

Taggar: Saknas än så länge.

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<http://www.kth.se/>