LTAT.05.005
Time Management and Teamwork
(a.k.a. “Software Project”)

Coordinator: Kuldar Taveter
Mentors: Kuldar Taveter, Yar Muhammad
Not an ordinary course

• Very few “lectures”
  • Two lectures about requirements and UI design + two demo sessions
• Lots of teamwork (about 150 hours per member, 600 per team)
• Lots of mentoring – weekly meetings with mentors starting next week
  • Mentors will clarify what you need to achieve and by when, they will help you resolve conflicts and mediate problematic situations, and will assess your deliverables
• Lots of online communication…
  • Please make sure you are registered in the Slack workspace
  • Preferably, use Slack channels to communicate within your team
(Almost) everything you want to know or ask should be here…

- Course web page: https://courses.cs.ut.ee/2019/tvp/
- Slack workspace: https://tvp2019tartu.slack.com
- TinyURL for joining the Slack workspace: https://tinyurl.com/y69tgz9e
Every team must set up a development/collaboration infrastructure

Min requirements:
- Version Control System (VCS), e.g. git
- Issue tracker
- Wiki
- Continuous Integration

GitLab is recommended, Github or BitBucket are alternatives but they need to be combined with a CI platform (e.g. Travis, Shippable)
- It’s your choice, you set it up and then grant access to your mentor

For CI of mobile apps, we recommend using a free NeverCode.io account
Dev and collab infrastructure (cont.)

• We can provide:
  • A Linux Ubuntu or CentOS bare-bones virtual server with 2 cores, 2 GB RAM, 20GB Disk in University of Tartu’s cloud (available with VPN access only)
  • If you need more capacity (CPUs, RAM), ask, but not sure we can provide it
  • If you need external IP address (to show to your customer), please ask upfront
  • Drop me an email to make your virtual server request

• But you can also use another deployment infrastructure, e.g.
  • Engine Yard for PHP/Ruby/Node.js
  • Heroku for Java/Ruby (a bit limited though)
  • DigitalOcean – you can get $100 credits by applying for a GitHub education pack
Dev and collab infrastructure (cont.)

- Docker for CI is allowed
  - Normally, your CI process should end in a deployed/executable application
  - However, producing a docker image in Docker Hub and “manually” pulling it into your deployment server on UT’s cloud is OK
Working Principles

1. Transparency
   • Anything that is not in your dev and collaboration infrastructure does not exist
   • Any server-side application that is not running on a server does not exist.

2. Traceability
   • Every commit must be linked to an issue
   • Where applicable, every issue must be linked to a requirement documented in Wiki

3. Reproducibility
   • A person having ordinary skill in the art (PHOSITA) should be able to build and test your app from the source code with reasonable effort. Your mentor is a PHOSITA.

4. Continuous Integration (CI)
   • On the end, every commit/push should lead to a new tested & deployed version of the system
What to do now/next?

- Choose your project & contact your customer
  - Choose your project and form the team by Friday 6 September 8 AM
  - I will send you the contact details by Friday at 12:00 (should be available, as a rule)
- Agree on a first meeting with customer
- Prepare for your meeting – read the project description, prepare your meeting, do some searches online to get info, check for possible approaches, think about possible requirements, prepare questions
- Read the grading criteria (at least for iteration 1)
- Set up your dev and collab infra
- If possible: discuss how to use the collab infra – who monitors/oversees issue tracker, who writes to Wiki what and when, what is your Git workflow (e.g. branching and merging policy)
- Reminder: Iteration 1 deadline is 23 September
Other deadlines

• 23 October: Intermediate demo day
• 8 November: Will send you a message with information about peer-review
• 15 November: Deadline for selecting a project to peer-review
• 25 November: Peer reviews due
• 9 December: Peer-review responses due
• 18 December: Final Demo Day
Remarks

• There will be no face-to-face consultation sessions for the groups to be mentored by Kuldar Taveter on 25 September and 16 October
Past examples of very good projects

• https://github.com/leelokas/vacation_tracker/wiki
• https://github.com/leelokas/vacation_tracker
• https://github.com/vladislavivanistsev/SuperCap/
• https://github.com/alajal/license-management/
• https://github.com/L6mps/LasaLaraAP/