Main Project

Software Engineering II 3/11/2022

Version 1.0

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Product Owner and Scrum Master

- Can be contacted at (almost) any time on Telegram
 - Answers will come typically during "office hours"
- PO (response to stories link)
 - Clarification on stories
 - Discussion during planning
- Scrum master (response to key concepts reminder)
 - How to work
 - What can (not) be done

Daily Scrums

- Perform "daily" scrum
 - at beginning of new work session or
 - beginning of lecture whichever come first
 - Anytime you can meet together
- Record spent time on scrum meeting on YouTrack

Time budget

- Roughly 6 person-hours per team member per week
- Sprint duration: 2 weeks
- Effort budget per sprint
 - 60 hours for 5-members teams
 - 72 hours for 6-members teams
 - 84 hours for 7-members teams

Estimation and planning

- All stories entered in a new project board
- One third of stories estimated
 - Story points
- Planning for the first sprint
 - Sprint started
 - Stories selected assigned to the sprint
 - All tasks estimated in hours
 - Keep in mind your time budget
- By Tuesday 8 November everything available on YouTrack board

Share information on your repositories

- On the shared Google sheet https://tinyurl.com/se2polito
 - By Tuesday 8 November columns YouTrack and Github must be filled
 - You will insert data on Docker and Sonar Cloud after the respective workshops



Deadlines and requirements – part 1

- Tue Nov 8 Estimation of 1/3 of stories and first sprint planning
 - Youtrack and Github repositories shared on https://tinyurl.com/se2polito
- Mon Nov 14 Demo 1
- Mon Nov 28 Demo 2 Release 1
 - The release consists in providing a Docker container with all the software
 - Plus instructions on how to start and use the system
 - Must contain the full deployment
 - Docker repository shared on https://tinyurl.com/se2polito
 - Docker container deployable by third parties
 - Estimation of 2/3 of stories

Deadlines and requirements – part 2

- Mon Dec 12 Demo 3
 - Sonar cloud repository shared on https://tinyurl.com/se2polito
 - Sonar cloud analyses performed and track of TD management
 - Estimation of all stories
- Mon Jan 9 Demo 4 Release 2
 - Docker container deployable by third parties
 - Sonar cloud analyses performed and track of TD management

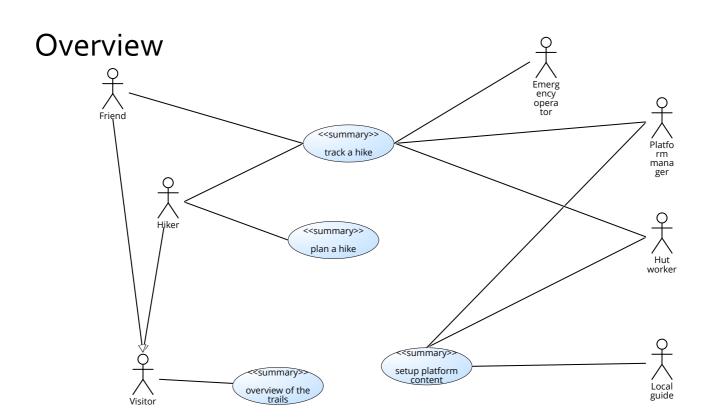
Hike Tracker

Hike Tracker 📣

- Application for
 - promoting hiking activities in the mountains
 - fostering group activities through collaborative track of hikes
 - leveraging the network of mountain huts
 - ease safety operations in case of incidents/emergencies
- With non-profit goal

Users

- Visitor (i.e., any user not registered to the application)
- Hiker
- Friend
- Local guide
- Platform manager
- Hut worker
- Emergency operator



Constraints

- System must be accessible through:
 - regular web browsers
 - smartphones
 - tablets
- The system must be cross-platform

Test data

- You will have to create test data with available information on the web
- Teams can collaborate and share test data, if you wish
- Data format for a hike:
 - Title/label
 - Length (kms)
 - Expected time
 - Ascent (meters)
 - Difficulty (Tourist, Hiker, Professional hiker)
 - Start point *
 - End point *
 - Reference points *
 - Description
- Point can be: address, name of location, GPS coordinates, hut, parking lot

Virtual clock and position simulator

- Since the system works over periods of time, a virtual clock must be available for testing purposes
 - Virtual clock must let the tester fast-forward time.
- GSP positions can be simulated by selecting points in the trail tracks
 - Usually trail tracks are available as gpx files. Examples:
 - https://hikerspiemonte.it/download/2140/
 - http://vallevaraitatrekking.it/tappe/becetto-rifugio-bagnour/
 - Examples of hikes :
 - https://hikerspiemonte.it/sentiero-per-il-rocciamelone/
 - https://www.bielointothewild.com/rocciamelone-3-538-m-hiking-piedmont-legendary-peak/
 - https://www.komoot.com/smarttour/e933899326/ascesa-al-rifugio-savona-giro-ad-anello

Product backlog

- Stories are already in priority order, the most valuable is the first one
- Import the provided file by following the You Track tutorials
 - From XLSS or Google Sheet:
 - https://www.jetbrains.com/help/youtrack/cloud/import-from-xlsx.html#setup-procedure
 - From csv file:
 - https://www.jetbrains.com/help/youtrack/cloud/import-from-csv.html