
Main Project

Software Engineering II

2024-10-24

CHECK-IN

- Remember to check-in !
- It closes at 11:45 am



Product Owner and Scrum Master

- Can be contacted at (almost) any time on Telegram
 - Answers will come typically during “office hours”
- PO (post a response to stories link)
 - Clarification on stories (use tag **#story-id** , e.g. #story06)
 - Discussion during planning
- Scrum master (response to key concepts reminder)
 - Use **#scrumMaster** tag
 - How to work
 - What can (not) be done

Daily Scrums

frequent

- 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

- 8 person-hours per team member per week
- Sprint duration: 2 weeks
- Effort budget per sprint
 - 64 hours for 4-members teams
 - 80 hours for 5-members teams
 - 96 hours for 6-members teams
 - 112 hours for 7-members teams

Estimation and planning

- All stories entered in a new project board
- At least 1 / 3 of stories estimated (i.e., ≥ 8 stories)
 - 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 4 Nov. everything available on YouTrack

Share information on your repositories

- On the shared sheet

- <https://cryptpad.fr/sheet/#/2/sheet/edit/-t1uaqcPbnRAAt6FELzVscVWI/>
- By Tuesday 4 Nov. columns
YouTrack and Github must be filled
- You will insert data on other columns at later stage

Deadlines and requirements – part 1

- Tue Nov 4 – Estimation of 1 / 3 of stories and first sprint planning
 - Youtrack and Github repositories on the shared sheet
- Thu Nov 13 – Demo 1
 - Estimations of at least 2 / 3 of the stories (at least 16)
 - License indication (name and/or link) on the shared sheet → Workshop #7
- Thu Nov 27 – 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
 - Estimation of all available stories
 - Docker repository on the shared sheet
 - Docker container deployable by third parties

Deadlines and requirements – part 2

- Thu Dec 11 – Demo 3
 - Sonar cloud repository on the shared sheet → Workshop #8
 - Sonar cloud analyses performed and track of TD management
- Thu Jan 8 – Demo 4 – **Release 2**
 - Docker container deployable by third parties
 - Sonar cloud analyses performed and track of TD management
- Fri Jan 16 – Teaser video on YouTube (private)
 - Private link on the on the shared sheet

CHECKLIST

Checklist for project self-evaluation (1)

■ COORDINATION AND PLANNING

- Are Scrum Meetings performed regularly?
- Is workload among team members balanced?
- Is workload of members close to the expected one?
- Are user stories moved to sprint boards according to planning and actual development?
- Is task size consistent with guidelines?
- Are tasks estimated?
- Is time spent on tasks tracked?

Checklist for project self-evaluation (2)

- Are all sprint boards complete with planned tasks?
- Are there estimated and tracked technical tasks?
- Are retrospectives conducted collectively?
- Are retrospectives filled with meaningful and precise data?
- Do retrospectives generate concrete and verifiable improvements in next sprint?

Checklist for project self-evaluation (3)

- DEVELOPMENT AND QUALITY ASSURANCE
 - Is the definition of done fully respected?
 - Are all functionalities of a story working properly?
 - Is priority of backlog respected?
 - Is there evidence of manual testing?
 - Are test data for demo prepared in advance?
 - Is technical debt management estimated?
 - Is technical debt management performed and tracked?
 - Is deployment of container tested on more than a pc?

Checklist for project self-evaluation (4)

- Are the instructions to run your docker image present on DockerHub or GitHub?"
- Is documentation of the release complete (e.g., credentials, readme, etc.)?
- Are GitHub issues promptly opened after giving feedback?
- Is follow-up activity on a feedback GitHub issue properly tracked?

PARTICIPIUM

Citizen Participation System for Urban Management of the Municipality of Turin

System Goal

- Enable citizen participation in managing urban environments
- Report inconveniences and malfunctions in the city
- Strengthen trust between citizens and the municipality

Real example: IRIS@Venice

<https://iris.sad.ve.it/>

The screenshot displays the IRIS@Venice web application interface. The top navigation bar includes the 'Dime Iris' logo, the 'UNIONE EUROPEA' logo, and a 'LOGIN' button. A search bar on the left contains the text 'Venezia'. The main area features a map of the Venice region with various colored markers (green, orange, blue) indicating different types of reports or zones. On the right side, there is a sidebar with a search bar labeled 'Cerca una segnalazione' and a toggle for 'Le mie segnalazioni'. Below this, a list of reports is shown, each with a title, location, and a 'VEDI SULLA MAPPA' button. The reports are as follows:

- Segnalazione 140961** (Assegnata)
Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - CHIRIGNAGO - ZELARINO (MESTRE OVEST) VIA
TAGLIAMENTO 30/A 30
oggi alle 14:45 - Verde pubblico
VEDI SULLA MAPPA
- Segnalazione 140959** (Assegnata) - 1 foto
Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - VENEZIA - MURANO - BURANO (VENEZIA INSULARE)
CAMPIELLO DRIO LA CHIESA 2608
oggi alle 14:33 - Rifiuti, cassonetti e pulizia
VEDI SULLA MAPPA
- Segnalazione 140955** (Assegnata) - 1 foto
Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - MESTRE - CARPENEDO (MESTRE CENTRO) VIA CRISTOFORO
COLOMBO 9
oggi alle 14:18 - Manutenzione stradale
VEDI SULLA MAPPA
- Segnalazione 140952** (Assegnata) - 6 foto
Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - CHIRIGNAGO - ZELARINO (MESTRE OVEST) VIA ISCHIA 6
oggi alle 14:05 - Manutenzione stradale
VEDI SULLA MAPPA

At the bottom of the sidebar, there is a button labeled '+ AGGIUNGI SEGNALAZIONE'.

Real example: IRIS@Venice

<https://iris.sad.ve.it/>

The screenshot displays the IRIS@Venice web application interface. The top navigation bar includes the 'Dime Iris' logo, the 'UNIONE EUROPEA' logo, and a 'LOGIN' button. A search bar on the left contains the text 'Venezia'. The main map area shows a street grid in Venice with numerous yellow circular markers indicating reported issues. A detailed report for 'Segnalazione 131772' is overlaid on the map, showing the status 'In lavorazione' and a description of a public lighting problem. To the right of the map, a sidebar lists several other reports, each with a status 'Assegnata' and a 'VEDI SULLA MAPPA' button. At the bottom right, there is a button to 'AGGIUNGI SEGNALAZIONE'.

Segnalazione 131772 In lavorazione

Il cavo di alimentazione dell'illuminazione pubblica di è sganciato dal supporto sul pilone ed è sceso di circa un metro

11/08/2025 alle 23:15
Comune di Venezia • Illuminazione pubblica

[VEDI DETTAGLIO](#)

Segnalazione 140961 Assegnata

Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - CHIRIGNAGO - ZELARINO (MESTRE OVEST) VIA
TAGLIAMENTO 30/A 30
oggi alle 14:45 • Verde pubblico

[VEDI SULLA MAPPA](#)

Segnalazione 140959 • 1 foto Assegnata

Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - VENEZIA - MURANO - BURANO (VENEZIA INSULARE)
CAMPIELLO DRIO LA CHIESA 2608
oggi alle 14:33 • Rifiuti, cassonetti e pulizia

[VEDI SULLA MAPPA](#)

Segnalazione 140955 • 1 foto Assegnata

Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - MESTRE - CARPENEDO (MESTRE CENTRO) VIA CRISTOFORO
COLOMBO 9
oggi alle 14:18 • Manutenzione stradale

[VEDI SULLA MAPPA](#)

Segnalazione 140952 • 6 foto Assegnata

Dettagli visibili dopo l'inizio della lavorazione
Comune di Venezia - CHIRIGNAGO - ZELARINO (MESTRE OVEST) VIA ISCHIA 6
oggi alle 14:05 • Manutenzione stradale

[VEDI SULLA MAPPA](#)

[+ AGGIUNGI SEGNALAZIONE](#)

Real example: IRIS@Venice

<https://iris.sad.ve.it/>



Segnalazione 110642

Alcuni tratti spenti di illuminazione pista ciclabile del ponte della libertà

25/10/2024 alle 11:45
Illuminazione pubblica



📍 Comune di Venezia - Venezia - Murano - Burano vicino a VIA SAN GIULIANO

Iter segnalazione

Assegnazione (LL.PP. (illum.))	Assegnata
25/10/2024	
Presenza in carico	In lavorazione
25/10/2024	
Esito - soluzione programmata	In lavorazione

Main Features

- Citizen reporting with geolocated map
- Categories: lighting, waste, roads, etc.
- Attach up to 3 photos per report
- Anonymous reporting option
- Interactive map and summary table of reports

System description

CAREFULLY READ
the file Participium-description.pdf !



System description

CAREFULLY READ
the comments to the user stories!



Be careful: there are lethal risks if you ask questions on Telegram about aspects already reported in the Participium-Description.pdf document or in the user stories comments.



Be careful:
the document
**Participium-
description.pdf**
can be **updated** by the
product owner !



Do not skip
stories:
follow the
priority
given



Report Lifecycle

- States: Pending Approval → Assigned → In Progress → Suspended → Resolved
- Municipal Organization Office validates reports (they can be rejected, too)
- Technical offices plans and executes interventions
 - Definition of specific offices is up to you!

Notifications & Citizen Updates

- Status change notifications on the platform
- Optional email alerts
- Two-way messaging with municipal operators
- Reports visible on interactive map and public table

Statistics

- Public: number of reports by category, trends (day/week/month)
- Private (admin only): reports by status, type, reporter
- Detailed analytics including top reporters

Telegram Bot Features

- Make new reports
- Check status of personal reports
- Receive real-time push notifications
- Quick help and useful contacts

Details of functionalities

Details on two files:

- system description
- user stories

Next steps

- Your sprint starts NOW.
- Next steps: **estimation and planning**
- Report new You Track and GitHub urls
- Check deadlines and what is expected for each sprint
- The application should be tested using real data:
 - Check for issues on your route to Polito, sports practice, shops, etc.

Questions on Padlet

https://padlet.com/polito/se2_participium

