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# Main Project

## Software Engineering II

2024-10-24

# CHECK-IN

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



<https://moodle.polito.it/mod/quiz/view.php?id=12042>

# Product Owner and Scrum Master

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- 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

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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

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- 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

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- All stories entered in a new project board
- At least 1 / 3 of stories estimated (i.e.,  $\geq 8$  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

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- On the shared sheet

- <https://cryptpad.fr/sheet/#/2/sheet/edit/-t1uaqcPbnRAt6FELzVscVWI/>
- 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

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- 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

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- 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

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# CHECKLIST

# Checklist for project self-evaluation (1)

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## ■ 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)

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- 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)

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## ▪ 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)

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- 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?

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# PARTICIPIUM

Citizen Participation System for Urban Management of the Municipality of Turin

# System Goal

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- 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 platform interface. On the left is a map of the Venetian region, including parts of Veneto and Friuli-Venezia Giulia. The map shows various locations with green and orange circles containing numbers indicating the count of reported issues. Notable counts include 7794 in the center of the city, 120 near Jesolo, 5440 near Marghera, 89 near Chioggia, and 6 near Cava dei Tirreni. On the right, a sidebar lists five recent reports, each with a title, location, date, and status (Assegnata). Each report also includes a "VEDI SULLA MAPPA" button. The top of the page features the Dime Iris logo, logos for the European Union and POR Fondo di Investimenti, and links for LOGIN and INFO.

Dime Iris

UNIONE EUROPEA

POR

LOGIN

INFO

Venezia

Dačan di Pordenon

A4

Natura 2000 Laghi di Mare e Gru

SPV

Le mie segnalazioni

86402 risultati

Segnalazione 140951 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 D'ORO 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

17

# Real example: IRIS@Venice

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

The screenshot displays the IRIS@Venice web interface. At the top, there is a header bar with the Dime Iris logo, the European Union flag, and the POR logo. On the right side of the header are 'LOGIN' and 'INFO' buttons. Below the header is a search bar with the placeholder 'Venezia'. The main area features a map of a specific neighborhood in Venice, showing numerous green and orange circular markers indicating active service reports. A modal window is open on the left side of the map, providing details about a specific report:

Segnalazione 131772  
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](#)

To the right of the map, there is a sidebar titled 'Cerca una segnalazione' with a search input field. Below it is a section for 'Le mie segnalazioni' with a switch button. The sidebar also shows the total number of results: 86402 risultati. The sidebar lists four recent reports, each with a title, location, date, status, and a 'VEDI SULLA MAPPA' button:

- 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
- Segnalazione 140959 • 1 foto • Assegnata  
Dettagli visibili dopo l'inizio della lavorazione  
Comune di Venezia - VENEZIA - MURANO - BURANO ( VENEZIA INSULARE ) CAMPIELLO DRIOLLA CHIESA 2608  
oggi alle 14:33 • Rifiuti, cassonetti e pulizia
- 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
- 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

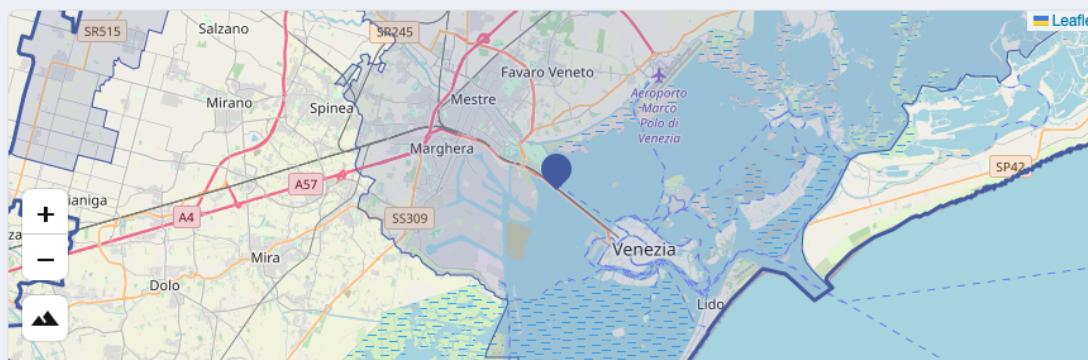
At the bottom right of the sidebar is a blue button labeled '+ AGGIUNGI SEGNALAZIONE'.

# Real example: IRIS@Venice

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

UNIONE EUROPEA  
Fondi Strutturali e di Investimenti Europei | POR  
Regione del Veneto

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

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- 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

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CAREFULLY READ  
the file **Participium-description.pdf** !



# System description

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CAREFULLY READ  
the comments to the user stories!



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**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.



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



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Do not skip  
stories:  
follow the  
priority  
given



# Report Lifecycle

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- 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

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

# Statistics

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- 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

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

# Details of functionalities

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Details on two files:

- system description
- user stories

# Next steps

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- 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

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[https://padlet.com/polito/se2\\_participium](https://padlet.com/polito/se2_participium)

