Main Project

Software Engineering II

2024-10-24

CHECK-IN

- 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

- 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/-t1uaqcPbnRAt6FELzVscVWl/
  - 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

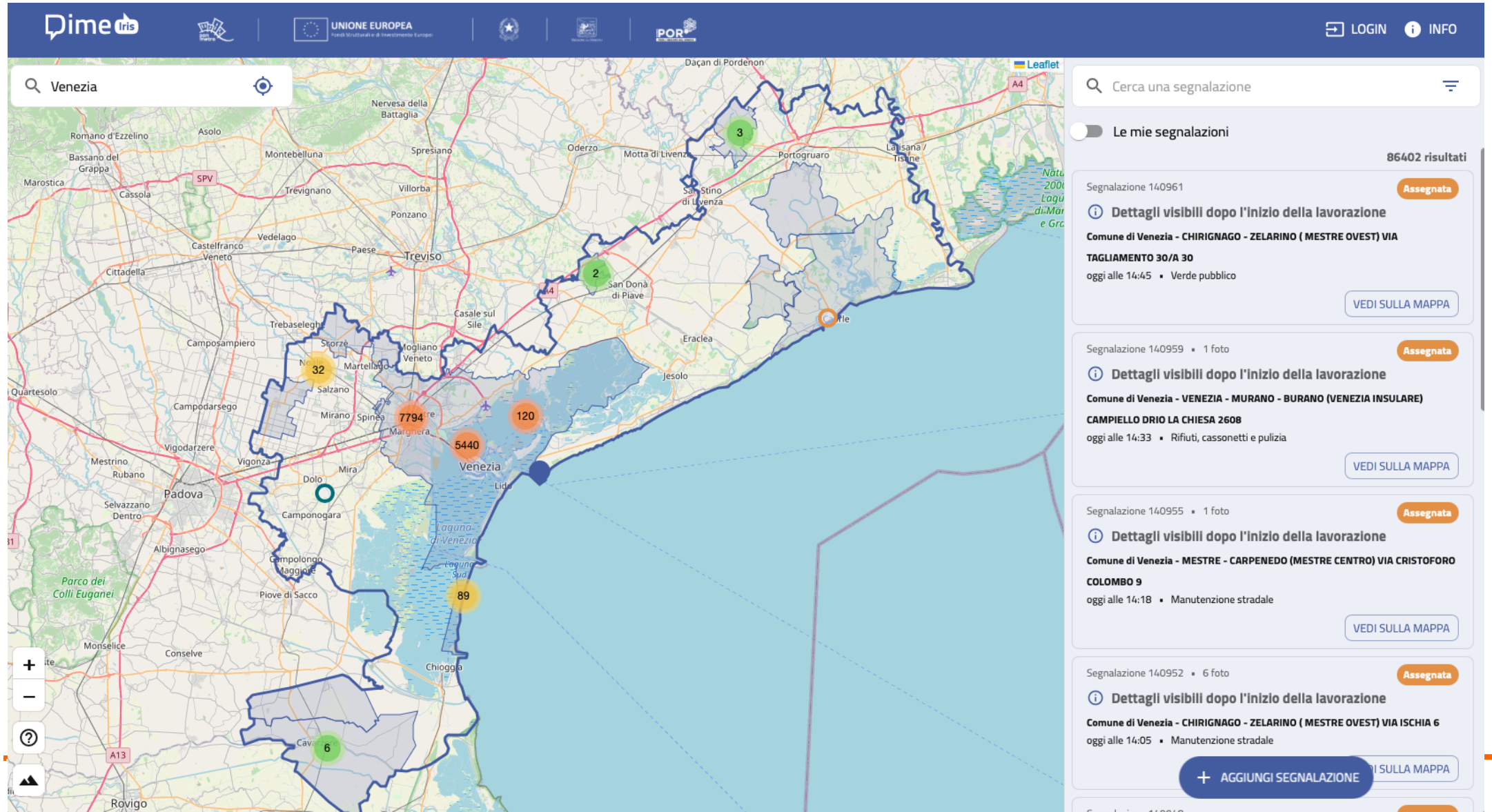
Citizen Participation System for Urban Management of the Municipality of Turin

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/



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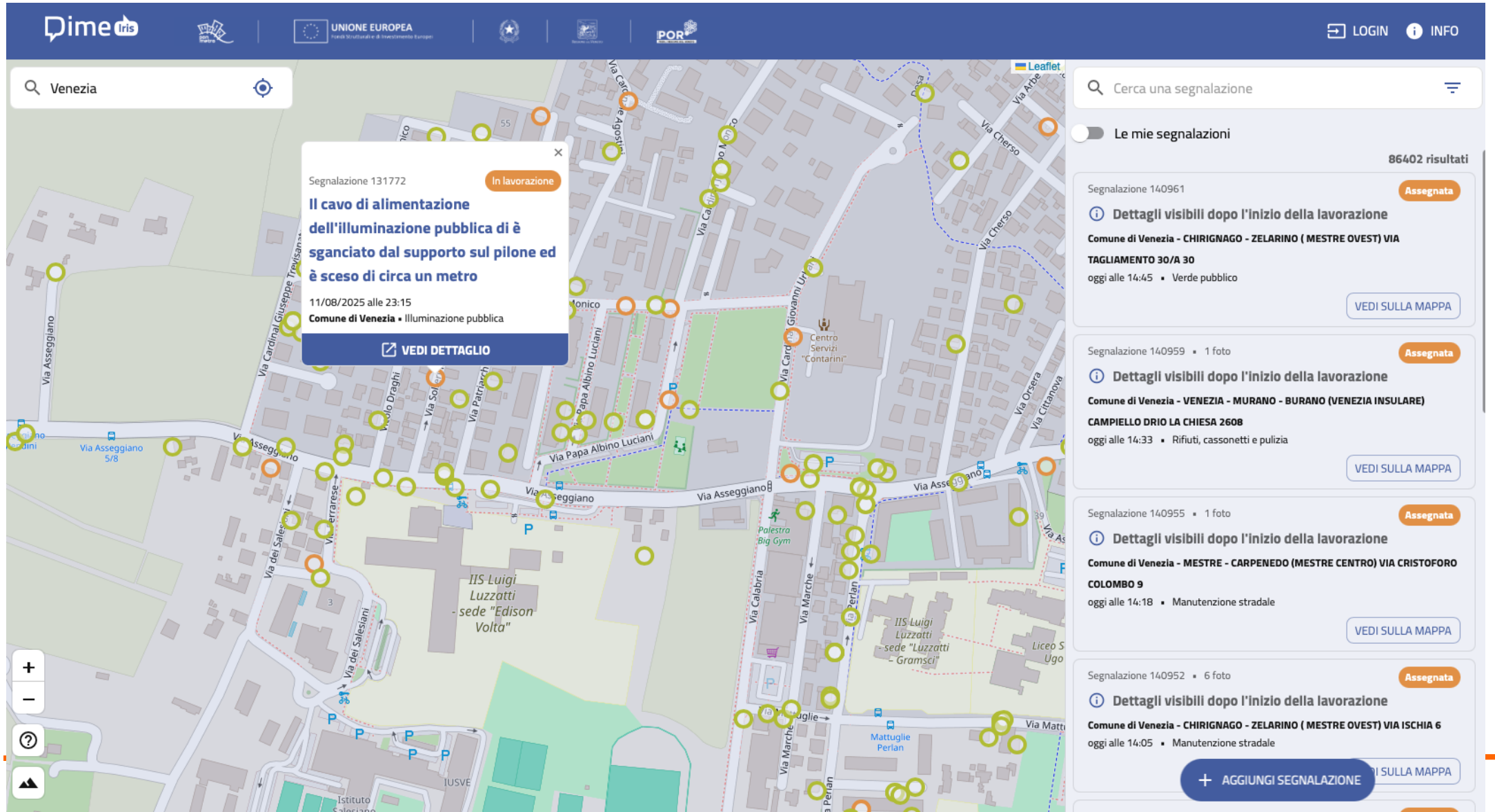

Real example: IRIS@Venice

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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

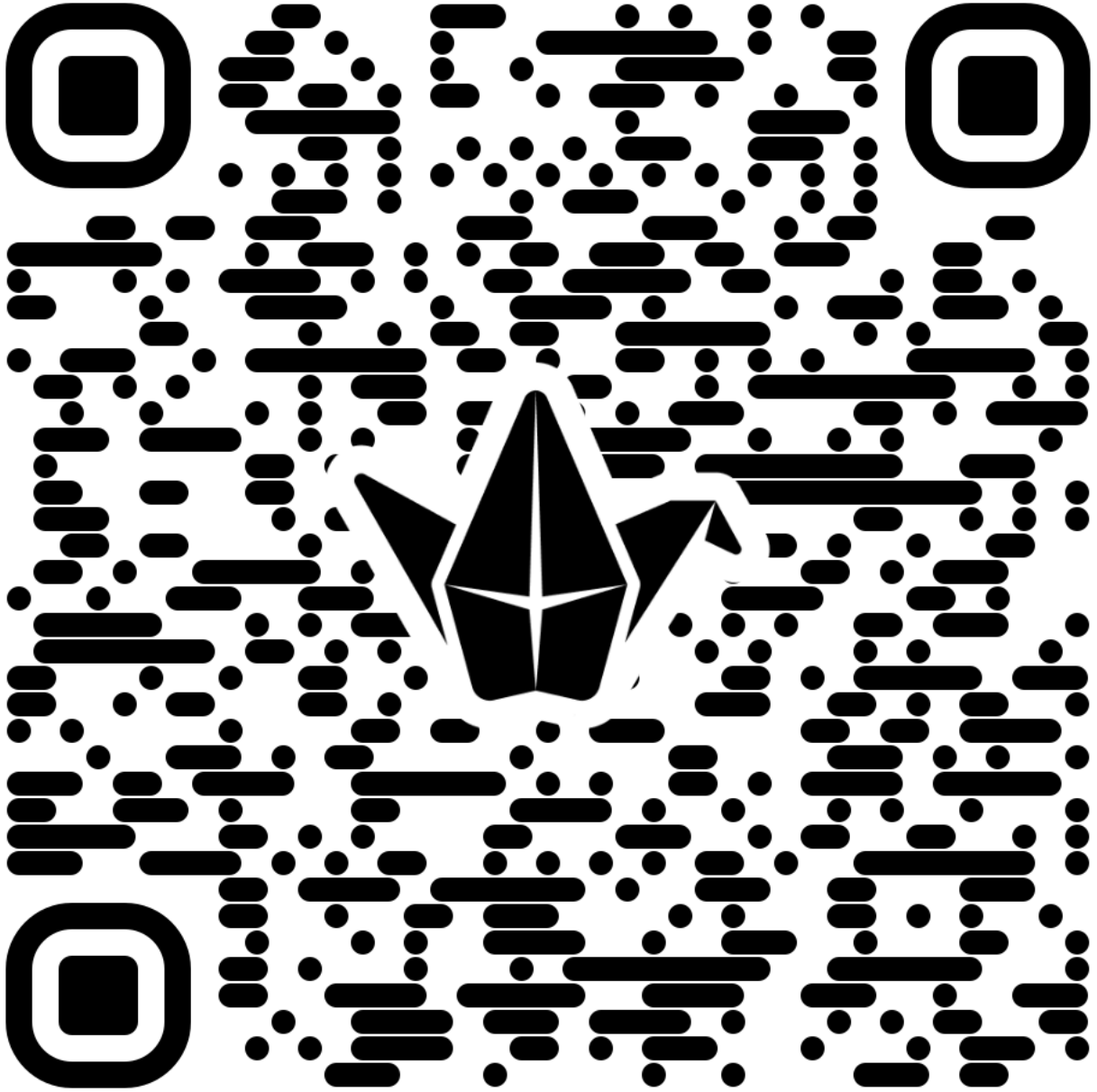
Details of functionalities

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