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# Lab 5. Quality Assurance & Testing

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# Agenda

- Recap questions
- Test-driven development
- Activity 1 - Presentations
- Activity 2 - Create acceptance criteria
- Activity 3 - Start writing tests

# Questions?

- What are the steps of TDD?
- What is acceptance criteria?
- Explain the what is Given/When/Then?
- What tools can we use to automate quality?
- What is technical debt?

# Activity 1 - Presentations (5 mins per team)

- Project context: Problem you are solving (keep it concise and to the point)
- Requirements: Functionality and how you prioritised it
- Well-rehearsed demo: Show your product (the most important part of the presentation)
- Team: Roles and Contribution of each team member.
- Client: Collaboration, Feedback and Satisfaction (mention which part of your solution is already in use by the client)

## Activity 2 - Create Acceptance Criteria

For already implemented user stories formulate acceptance criterias using given example:

**Scenario:** The registered user signs-in with valid credentials

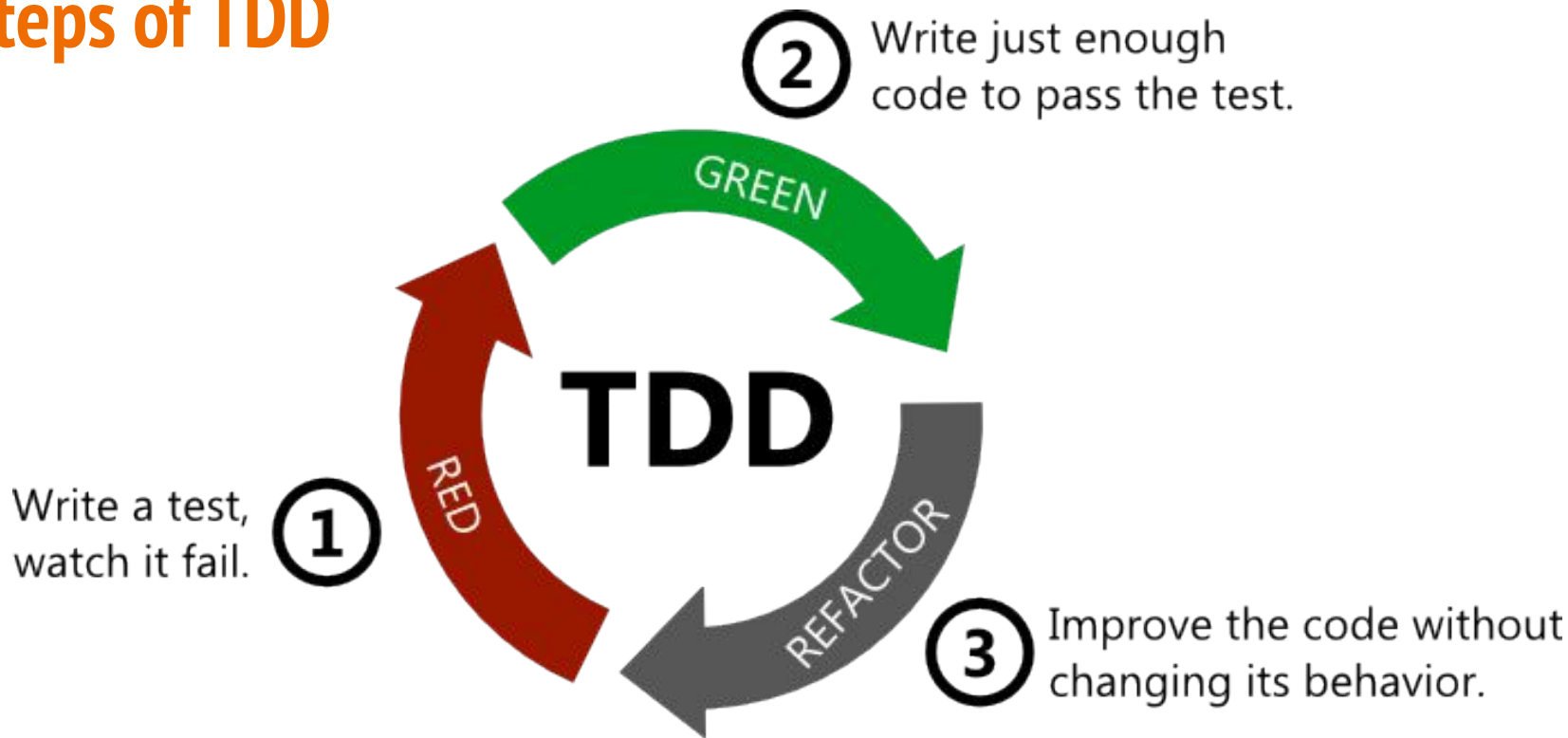
**Given:** I am logged-out and I am on a sign-in page

**When:** I fill in the “Username” and “Password” fields with my valid credentials, and confirm the input.

**Then:** I get signed in to the website

Make sure that it's **testable, clear and concise, easy to understand** and **provides end user perspective**.

# Steps of TDD



## Activity 3 - Start Writing Unit Tests

- Find testing framework for your project
- Write at least 3 unit tests using selected framework
- Make sure the tests fail when you break your code
- Add your changes to the repository and observe Auto Devops

**Now you can exhale and relax :)**

