

Software Quality and Testing Lab for Teaching Assistants

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Testing JPacman

Our own Java implementation of Pac-Man

It's on GitHub: https://github.com/SERG-Delft/jpacman

We switched to a single repository and to Gradle





4 assignments

Similar to last year, new: security exercises

In pairs

Structure and Deadlines

Part 0: Get acquainted with the environment and tools. Deadline: 03-05-2019, 5.00 pm - Review Deadline: 10-05-2019, 5.00 pm

UNGRADED

Part 1: Unit tests and boundary tests. Deadline: 17-05-2019, 5.00 pm - Review Deadline: 28-05-2019, 5.00 pm

Part 2: Structural testing and mock objects. Deadline: 03-06-2019, 5.00 pm - Review Deadline: 10-06-2019, 5.00 pm

Part 3: System tests, state-based testing, and mocking. Deadline: 21-06-2019, 5.00 pm - Review Deadline: 27-06-2019, 5.00 pm

https://se.ewi.tudelft.nl/cse1110-2019/

Peer reviewing

After submitting,

review your own solution + someone else's

Learn about things you can improve and see different approaches to solving the problem

Grades are based on reviews and manual checks



DEVELOP IN



MANAGE CHANGES ON



REVIEW ON



gitlab.ewi.tudelft.nl

peer.ewi.tudelft.nl



Build using gradle

Test using

- JUnit 5
- AssertJ assertions
- Mockito











Make sure everything works, run gradle check

Continuous Integration

Pipeline Jobs 2					
Status	Job ID	Name		Coverage	
♂ Test					
⊘ passed	#417536	test	 ፬ 00:00:44 ☆ 35 seconds ago 	79.4077%	C
Static Analysis					
running	#417537	warnings	ō 00:00:13		×



Simple Java project, mostly default setup



Assignment

Will be released after the lecture

Software Testing and Quality Engineering STQE Labwork, CSE1110

Edition 2018/2019

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1 Introduction

In this document, you will find everything about your JPACMAN labwork.

The objective of this lab work is to help you learn how you can apply the various tools and test strategies discussed during the lectures in practice.

You will apply these techniques to a simple game called JPACMAN, inspired by Pacman and written in Java. The amount of coding that needs to be done is relatively



Help students!

Work through the assignments

Helps in helping students and early detection of errors

(Manual) Grading