

# TDTP

## Documentation

Academic year: 2023-2024, Spring Semester

Team Name:

Team members:

<student1 (group)>

<student2 (group)>

...

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*Please remove de recommendations included in brackets (<...>).*

## 1. Application Details. Investigated Features

*<A short description (2-3 small paragraphs) of the tested application and the tested functionalities. This section can be filled in before TDTP delivery when you have general view of the entire application and the features you addressed during testing.>*

## 2. AC. IOs

*<This section includes the content of the Application Context and Information Objectives (AC+IOs) cell in the TDTP file, that your team decided to work on. See **Lecture08**.>*

Application Context: ....

Part I:...

Part II: *<this should be proposed by your team>*

## 3. Testing Mission

*<Describe in 1-2 sentences the testing mission associated to each information objective you intend to achieve for Part I and Part II. See **Lecture08**.>*

**Testing mission for Part I.**

**Testing mission for Part II.**

## 4. Testing Strategy

*<Describe in 1-2 paragraphs the testing strategies employed in your inquiry. Include the reasoning for choosing specific testing strategies. More than one strategy can be applied to achieve an information objective. See **Lecture08**.>*

**Testing strategy for Part I.**

**Testing strategy for Part II.**

## 5. Selected Test Design Techniques

*<Include details (1 paragraph) on the test design techniques selected. Emphasize the ~~different test attributes~~ and dimensions (coverage, risk, activity, etc.) covered by the chosen techniques. The investigation of the same technique following two dimensions counts as distinct techniques) in order to address the AC+IOs covered. At the end of this section you can use the following table to summarize your work. See **Lecture08**.>*

Part	Test Strategy	Test Design Technique	Test Attributes	Dimension covered	Students and Features
Part II	Analytical, Methodical, ...	Boundary Testing (BT)	Coverage, Information value, ...	Coverage	Student1 (Feature X) Student2 (Feature Y)
		Logical Expressions (LE)	Coverage, Credible, ...	Coverage	Student3 (Feature X) Student4 (Feature Z)
		Quick Tests (QT)	Power, Representative, ...	Risk	Student5 (Feature Y)
		Scenario-based Testing (ST)	Credible, Motivating, ...	Activity	Student4 (Features, X, Z, Y)
				-1	

## 6. Test Design. Test implementation. Test execution. Test Report

### 6.1. Test Design

<Include all the information associated to the test design step when a specific test design technique is used. Each team member will fill out the details corresponding to Part I and Part II. The table below indicates a sample for Part II.>

Information objective (Part II): ...						
Student	Feature(s)	Test Design Technique	Details	Input, Expected output		
Student1	Feature X	BT (Boundary Testing)	Variable n in [a, b] is tested	Input	Expected Output	
				a-1	...	
				a	...	
				a+1		
				b-1		
				b		
				b+1		
Student4	Feature Z	LE (Logical Expressions)	Business rules for variable a and b are tested	Variable	Rule1	Rule2
				a	a>0	a<=0
				b	b>0	b<=0
				result	False	True

### 6.2. Test Implementation. Test Execution

<Each student will choose **ONE** of the test design techniques she/he included in the previous section. For the picked technique the test cases designed will be implemented using an automation framework (see **Lab04**) (SeleniumWebDriver + SerenityBDD, Postman, JMeter) should be emphasized. The team can decide if each student will have her/his own automation project, or they will share the same project on git such that it will

include a package with the tests implemented by each team member. The table below will consist of the test cases implemented by each student.>

Part	Student	Feature(s)	Input, Expected Output, Actual Output			
Part II	Student1	Feature X	TCs	Input	Expected Output	Actual Output
			TC01	a-1	...	... or <b>Passed</b>
			TC02	a	...	... or <b>Failed</b>
			TC03	a+1		
			TC04	b-1		
			TC05	b		
			<del>TC06</del>	<del>b+1</del>		cannot be implemented
Part I	Student4	Feature Z	TCs	Input	Expected Output	Actual Output
			TC01	a=3, b=5	False	<b>False</b>
			TC02	a=-1, b=-3	True	<b>False</b>
			...			

### 6.3. Test Report

<This section will include the reports of the test execution, e.g., pie charts generated by the used tool, with #TCs run = #TCs passed + #TCs failed. If the entire team has worked on the same project, a single report/pie char should be provided. Otherwise, a pie chart/report should be presented for each team member.>

## 7. Issue Reporting

<This section includes the application of the RIMGEA strategy for **at least one issue** found while performing testing. The type of issue can be coding bug or design issue. Highlight 2-3 relevant RIMGEA elements for the detected issue(s). Thereafter, report the bug or issue using the corresponding template (see **IssueReport**). The bug/issues discussed in this section (and reported as well) refer to the entire team, not each team member.>

## 8. Conclusions. Lessons Learned

<Please include in this section final conclusions, lessons learned and personal considerations while working on TDTP (3-4 paragraphs). You can focus on the following aspects: type of application to be tested, amount of knowledge to use (related or not to testing), tools required to apply, team collaboration, test project organization, amount of time needed to fulfill the tasks, etc.>