# Politecnico di Milano A.A. 2015-2016

# Software Engineering 2: "myTaxiService" Integration Test Plan Document

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## 1 Introduction

## 1.1 Revision History

### 1.2 Purpose and Scope

This document describes the Integration Test Plan for the myTaxiService application. It provides a plan referring to how the various components of the software architecture described in the Design Document will be integrated for testing.

#### 1.3 List of Definitions and Abbreviations

• *UI:* User Interface.

#### 1.4 List of Reference Documents

- The document with myTaxiService's description
- myTaxiService's RASD
- myTaxiService's Design Document

## 2 Integration Strategy

#### 2.1 Entry Criteria

Before the integration testing, each single module must have been tested to verify its correct functioning according to its specifications.

#### 2.2 Elements to be Integrated

According to the Design Document, the components to be integrated are:

- Database:
  - Accounts
  - Active Reservations and Requests
- Web Server:
  - DBConnector
  - APIBackend
  - WebpageCreator
  - NotificationModule
  - HttpHandler
- UI:

- ClientUI
- DriverUI
- AdminUI

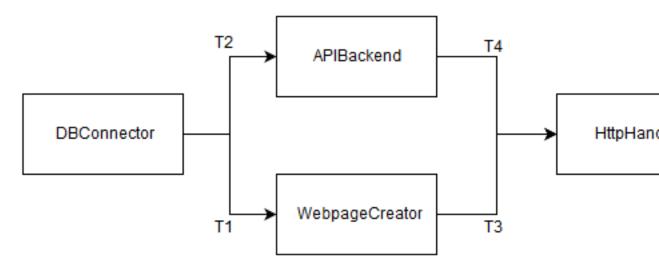
## 2.3 Integration Testing Strategy

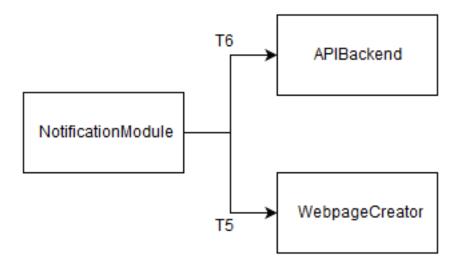
The decided testing approach is bottom-up.

## 2.4 Sequence of Component/Function Integration

## 2.4.1 Software Integration Sequence

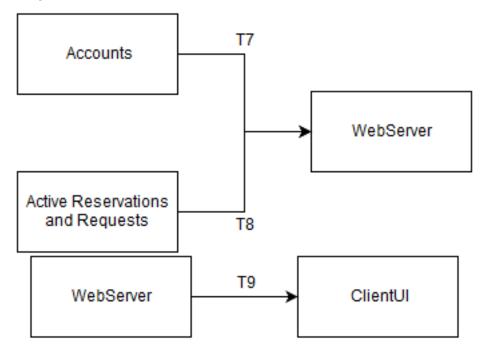
**2.4.1.1 Web Server** The following images describe how the Web Server's components will be integrated for testing. The arrows represent the order of integration.

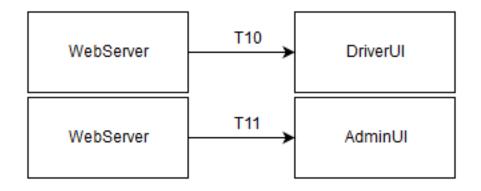




## 2.4.2 Subsystem Integration Sequence

The following graphs describe how the three components of myTaxiService application, which are the database, the Web Server and the various UIs, will be integrated.





# 3 Individual Steps and Test Description

## 3.1 T7

Test Case Identifier	Т7
Test Items	$Accounts \rightarrow WebServer$
Input Specification	
Output Specification	Check if the correct Accounts' methods are called
Environmental Needs	T1 to T6 succeeded

## 3.2 T8

Test Case Identifier	Т8
Test Items	Active Reservations and Requests $\rightarrow$ Web Server
Input Specification	
Output Specification	Check if the correct Active Reservations and Requests' methods are called
Environmental Needs	T1 to T6 succeeded

## 3.3 T9

Test Case Identifier	T9
Test Items	Web Server $\rightarrow$ ClientUI
Input Specification	Typical ClientUI input
Output Specification	
<b>Environmental Needs</b>	T7 and T8 succeeded

## 3.4 T10

Test Case Identifier	T10
Test Items	Web Server $\rightarrow$ DriverUI
Input Specification	Typical DriverUI input
Output Specification	
Environmental Needs	T7 and T8 succeeded

## 3.5 T11

Test Case Identifier	T11
Test Items	Web Server $\rightarrow$ AdminUI
Input Specification	Typical AdminUI input
Output Specification	
Environmental Needs	T7 and T8 succeeded

- 4 Tools and Test Equipment Required
- 5 Program Stubs and Test Data Required