# Introduction

This document created for describing testing InnoCalendar telegram bot. Because the functionality of bot might be developed it is wise to apply a test plan for each use case. The final goal of testing is proving that bot works well, i.e. that it is working as per the requirements and to verify that it provides the correct information and responses to the users.

# Scope

InnoCalendar telegram bot has four main use cases:

1. Subscribe for an initial core program (Setup an account);
2. Subscribe to a course;
3. Receive notification;
4. Update schedule.

The range of implemented use cases allows the user to interact with the bot without entering any textual (characters or numbers) information. The user can interact with the bot only by pressing the appropriate buttons introduced by the bot itself. Thus, testing entered textual information is excluded from the scope of this use case test document.

# Resources

For performing testing of use cases it is needed:

1. one personal computer, which performs the role of the server;
2. one personal computer and one mobile phone with appropriate applications (web browser, Telegram Desktop and Telegram mobile) installed for performing the role of the user;
3. one or two testers, which will perform testing.

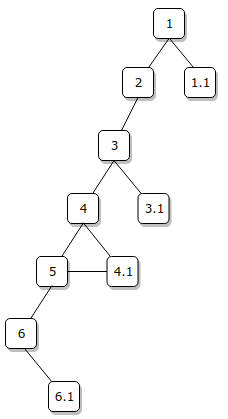
# Risks

Following obstacles might keep the test plans from being carried out:

1. The bot is not running for some reason.
2. Elective courses are rare, therefore it’s difficult to test them. Sometimes it could be necessary to use the test spreadsheet with elective courses. To do this, one has to change the link to elective courses spreadsheet in the source code.

# Use case testing

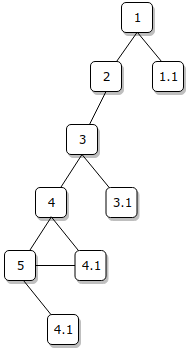
**Use case:** Subscribe for an initial core program.

**Decision tree:** 

**Individual paths in the tree:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case name:** | Subscribe for an initial core program | | |
| **Test ID:** | TC-SI-01 | | |
| **Test suite:** | Subscription | | |
| **Priority:** | High | | |
| **Setup:** | The user found the bot in his Telegram app | | |
| **Teardown:** | Clean up database of bot and disabling the bot from test account | | |
| **Step** | **Description** | **Result** | **Problem ID** |
| TC-SI-01-A1 | User press “Start” button | Pass |  |
| TC-SI-01-S2 | The bot sends wellcome notification to user | Pass |  |
| TC-SI-01-A3 | The user sends /configure\_schedule command | Pass |  |
| TC-SI-01-S4 | The bot response with possible course names on control buttons | Pass |  |
| TC-SI-01-A5 | The user press appropriate course button | Pass |  |
| TC-SI-01-S5 | The user press appropriate course button | Pass |  |
|  |  |  |  |
|  |  |  |  |
| **Status:** | Passed | | |
| **Tester:** | Abdoulie Kassama | | |
| **Date Complete:** | 25.11.19 | | |

**Use case:** Subscribe to a course.

**Decision tree:** 

**Individual paths in the tree:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case name:** | Subscribe to a course | | |
| **Test ID:** | TC-SC-01 | | |
| **Test suite:** | Subscription | | |
| **Priority:** | High | | |
| **Setup:** | The user found the bot in his Telegram app | | |
| **Teardown:** | Clean up database of bot and disabling the bot from test account | | |
| **Step** | **Description** | **Result** | **Problem ID** |
| TC-SC-01-A1 | User press “Start” button | Pass |  |
| TC-SC-01-S2 | The bot send wellcome notification to user | Pass |  |
| TC-SC-01-A3 | The user sends /configure\_schedule command | Pass |  |
| TC-SC-01-S4 | The bot response with possible course names on control buttons | Pass |  |
| TC-SC-01-A5 | The user press appropriate course button | Pass |  |
| TC-SC-01-S5 | The bot asks users for appropriate course subgroup | Pass |  |
|  |  | Pass |  |
|  |  | Pass |  |
| **Status:** | Passed | | |
| **Tester:** | Abdoulie Kassama | | |
| **Date Complete:** | 25.11.19 | | |

**Use case:** Update schedule.

**Decision tree:** 

**Individual paths in the tree:** 1, 2.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case name:** | Update schedule (successful) | | |
| **Test ID:** | TC-US-01 | | |
| **Test suite:** | Update schedule and notify | | |
| **Priority:** | High | | |
| **Setup:** | The initial state of google spreadsheet with the schedule is setup | | |
| **Teardown:** | The google spreadsheet with the schedule brought back into the initial state | | |
| **Step** | **Description** | **Result** | **Problem ID** |
| TC-US-01-A1 | Tester introduces changes into a google spreadsheet with the schedule | Pass |  |
| TC-US-01-S2 | The bot request the spreadsheet | Pass |  |
| TC-US-01-S3 | The bot receives a response from a google spreadsheet and update a database of schedule | Pass |  |
| **Status:** | Not Passed due to not accomplished preconditions | | |
| **Tester:** | Abdoulie Kassama | | |
| **Date Complete:** | 25.11.19 | | |

**Use case:** Receive notification.

**Decision tree:**

**Individual paths in the tree:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case name:** | Receive notification (successful) | | |
| **Test ID:** | TC-RN-01 | | |
| **Test suite:** | Update schedule and notify | | |
| **Priority:** | High | | |
| **Setup:** | The ibot database with updated schedule | | |
| **Teardown:** |  | | |
| **Step** | **Description** | **Result** | **Problem ID** |
| TC-RN-01-S1 | The bot sends a notification about changes in the schedule to the appropriate user | Pass |  |
| TC-RN-01-A2 | The user gets notification | Pass |  |
| **Status:** | Passed | | |
| **Tester:** | Abdoulie Kassama | | |
| **Date Complete:** | 25.11.19 | | |

# Use Case Interaction Matrix

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Test case matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subscribe for an initial core program** | | | | | |
| **Step** | **Variable or selection** | TC1 | TC2 | TC3 | TC4 |
| **B1** | Name of bot | @InnoScheldue\_bot | @InnoScheldue\_bot | @InnoScheldue\_bot | @InnoScheldue\_bot |
| **B2** | Click start button | /start | /start | /start | /start |
| **B3** | Configure command | /configure | /cake | /configure | someStuff |
| **B4** | Select core program | /configure | /cake | /configure | someStuff |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subscribe to a course** | | | | | |
| **Step** | **Variable or selection** | TC1 | TC2 | TC3 | TC4 |
| **B1** | Name of bot | @InnoScheldue\_bot | @InnoScheldue\_bot | @InnoScheldue\_bot | @InnoScheldue\_bot |
| **B2** | Сlick “Add new course” button | Click on button | Write Add new course in the Telegram | Click on button | someStuff |
| **B3** | Select course | Advanced Python | Programming on Haskell | someStuff | someStuff |