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Acceptance Criteria

MINA – IT2D
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VERSION 1.0

DIYABLO

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Version Management

Version number	Changes
1.0	Initial version.

Introduction

This document aims to define the acceptance criteria based on the scenario oriented model. This format was chosen over the conventional checklist format to provide a rigid coherent structure to reduce the complexity for use case testing.

Tasks

Using Given/ When/ Then format, being the prerequisite, action and result respectively The user stories defined below are therefore being accessed based on scenarios as follows:

1. View a retrospective document

As a developer, I want to be able to view a retrospective document, so I can reference client and project managers when needed and track progress made

Scenario: View personal feedback after a sprint

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to my personal field
- Then: I see a filled and error free column with my feedback for that sprint

Unhappy path(s)

1. Path 1

- Given I am a member of the project team
- When I open the document
- Then: I don't see my personal table

2. Path 2

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to my personal table
- Then: I see an encrypted document

Scenario: View team feedback

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document

- And: I navigate to a members table
- Then: I see an empty document

Unhappy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document
- And: I navigate to a members table
- Then: I see an empty document

2. Create definition of done document

As a developer, I will create a definition of done document so that I can get the goals of the project accessible to the stakeholders

Scenario: View a task's definition of done

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the task definition of done chapter
- Then: I see a filled and error free description of the corresponding definition of done for that user story

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the task definition of done chapter
- Then: I see an empty chapter

Scenario: View the definition of done checklist

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the definition of done checklist chapter
- Then: I see a filled and error free description of all checklist items

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the definition of done checklist chapter
- Then: I see an empty document

3. Develop software modules for human gesture recognition

As a developer, I want to be able to register human gesture recognition , so I can map them to actions the robot should perform

Scenario: Stop robot based on gesture

Happy path(s):

- Given I am a tracked user
- When I make a stop gesture
- Then: The robot should stop

Unhappy path(s)

- Given I am a tracked user
- When I make a stop gesture
- And: I navigate to the definition of done checklist chapter
- Then: The robot ignores gesture and continues moving

4. Create software modules for human tracking

As a developer, I want to be able to create code for human tracking , so a specific target can be registered and followed by the robot

Scenario: Register a user as target

Happy path(s):

- Given I am a human user
- When I interact with the system
- And: the dataset collection process begins
- Then: The system draws a box around user

Unhappy path(s)

- Given I am a human user
- When I interact with the system
- And: the dataset collection process begins
- Then: The system gathers my images

- Given the users pictures are registered
- When the user moves around
- Then: The system draws a box around him

5. Create coding conventions document

As a developer, I want to be able to view a code convention document , so I can uphold a standard while developing the product

Scenario: View code convention

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I scan through the code conventions
- Then: I can read the conventions to uphold the production standard

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I scan through the code conventions document
- Then: I see code conventions that oppose the production standard

6. Create a user manual

As a user, I want to be able to view a user manual , so I can understand how to interact with product

Scenario: Viewing user manual to understand system

Happy path(s):

- Given I have access to the document
- When I open the document
- And: I navigate to the relevant section of the user manual
- Then: I see useful information relating to my issue

Unhappy path(s)

- Given I have access to the document
- When I open the document
- And: I navigate to a section of the user manual
- Then: I see overly complex installation processes

7. Create a developer manual

As a developer, I want to be able to view a developer manual , so I can reduce knowledge gap before maintenance is conducted

Scenario: View a developer manual chapter

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to a specific section of the developer manual

- Then: I see relevant information that improves my knowledge on the project's development

Unhappy path(s)

- Given: I am a member of the project team and have access to the document
- When: I open the document
- And: I navigate to a specific section of the developer manual
- Then: I see an empty chapter

8. Add risk Analysis for testing

As a developer, I want to be able to view a risk analysis document, so I can reference client and project managers when needed

Scenario: View risk from test plan

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document
- Then: I see a filled and error free description of the risk

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- Then: I see an empty document

9. Compile sprint documents

As a developer, I want to be able to view sprint documents, so that I can plan sprint and view progress during sprints

Scenario: View user story allotted weight in product backlog document

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the product backlog document
- And: I navigate to the issues page
- Then: I can view the user story and its allotted weight

Unhappy path(s)

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the product backlog document
- Then: I see an empty document

10. Create design document

As a developer, I want to be able to view a design document, so I can reference client and project managers

Scenario: View data flow diagram

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the design document
- And: I navigate to the relevant chapter
- Then: I can view the data flow diagram

Unhappy path(s)

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the design document
- And: I navigate to the relevant chapter
- Then: I see an empty document

11. Learn Python basics

As a developer, I want to be able to learn basic level Python, so I can program and run tests on the robot

Scenario: Access topic in python

Happy path(s):

- Given I am a member of the project team and have access to the testing environment
- When I write code to access the depth topic in a loop
- And: I print the value
- Then: The system should output its value recursively

Unhappy path(s)

- Given I am a member of the project team and have access to the robot
- When I write code to access the depth topic in a loop
- And: I print the value
- Then: I see an error

12. Setup simulation environment

As a developer, I want to be able to setup the simulation environment, so I can test functionalities of the robot when needed

Scenario: View simulated world

Happy path(s):

- Given I have access to the mina-autonomous-service-data-driven-robot GitHub repository
- When I pull the base world
- And: I run the scripts in the readme description
- Then: I see a simulated Gazebo world with the robot in it

Unhappy path(s)

- Given I have access to the mina-autonomous-service-data-driven-robot GitHub repository
- When I pull the base world
- And: I run the scripts in the readme description
- Then: I see an empty project

13. Create product plan

As a developer, I want to be able to view a product plan document, so I can reference client and project managers when needed

Scenario: View conclusion chapter on risk analysis section in product plan document

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to risk analysis section of the product plan
- Then: I can see an error free conclusion chapter

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to risk analysis section of the product plan
- Then: I see an unfilled chapter

14. Create code of conduct document

As a developer, I want to be able to view a code of conduct document, so I can act without violating set rules

Scenario: View code of conduct document

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document

- And: I scan through the code of conduct

- Then: I see the set of rules relevant to the project

Unhappy path(s)

- Given I am a member of the project team and have access to the document

- When I open the document

- And: I scan through the code of conduct

- Then: I see empty sections in the document

15. Create test design

As a developer, I want to be able to view a test design document, so I can reference client and project managers when needed I can act without violating set rules

Scenario: View test design document

Happy path(s):

- Given I am a member of the project team and have access to the document

- When I open the document

- And: I navigate to a chapter

- Then: I see a filled and error free document

Unhappy path(s)

- Given I am a member of the project team and have access to the document

- When I open the document

- And: I navigate to a chapter

- Then: I see an empty document

16. Create master test plan

As a developer, I want to be able to view a master test plan document, so I can reference client and project managers when needed

Scenario: View the test strategies document

Happy path(s):

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the relevant chapter
- Then: I see a filled and error free description of all testing strategies

Unhappy path(s)

- Given I am a member of the project team and have access to the document
- When I open the document
- And: I navigate to the relevant chapter
- Then: I see an empty chapter

17. Integration with ROS

Scenario: View all topics on the robot

Happy path(s):

- Given I have access to the mina-autonomous-service-data-driven-robot GitHub repository
- When I make a pull request
- And: I run the rostopic list script
- Then: I see all ros topics available on the robot

Unhappy path(s)

- Given I have access to the mina-autonomous-service-data-driven-robot GitHub repository
- When I make a pull request
- And: I run the rostopic list script
- Then: The system returns an error

18. Final Demo Preparation

As a developer, I want to be able to show implemented solutions, so I can show client all functionalities that have been worked on within the allotted timeslot

Scenario: Showing implemented solutions

Happy path(s):

- Given I am a member of the project team and have access to the final demo's powerpoint
- When I open the document
- And: I showcase each slide to the client
- Then: I can effectively explain the details of each slide to the client

Unhappy path(s)

- Given I am a member of the project team and have access to the final demo's powerpoint
- When I open the document
- And: I showcase each slide to the client
- Then: I fail to explain the details of the project to the client

19. View Advisory Report

As a developer, I want to be able to view an advisory report document, so I can reference client and project managers have an insight on how to recreate the project

Scenario: View advisory report chapter

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document
- And: I read through the document
- Then: I read relevant information

Unhappy path(s)

- Given I am a member of the project team and have access to the document

- When I open the document
- And: I read through the document
- Then: I can see irrelevant information

20. Documentation

Scenario: View version control on document

Happy path(s):

- Given I am a member of the project team and a document is filled
- When I open a document
- And: I go to the version control table
- Then: I should see a correctly filled table

Unhappy path(s)

- G Given I am a member of the project team and a document is filled
- When I open a document
- And: I go to the version control table
- Then: The table is empty

21. Code Quality

Scenario: View code comments

Happy path(s):

- Given I am a member of the project team and have access to the GitLab repository
- When I pull the code
- And: I navigate to the relevant function
- Then: I see a filled and error free description of what the code returns and what its purpose

Unhappy path(s)

- Given I am a member of the project team and have access to the GitLab repository
- When I pull the code
- And: I navigate to the relevant function
- Then: I can't find any comments on the function

22. Create acceptance criteria document

As a developer, I want to be able to view an acceptance criteria document, so I can reference client and project managers when needed

Scenario: View happy path advisory report

Happy path(s):

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document
- And: I navigate to the relevant chapter
- Then: I see a filled and error free happy path for the advisory report

Unhappy path(s)

- Given I am a member of the project team or stakeholder and have access to the document
- When I open the document
- And: I navigate to the relevant chapter
- Then: I see an empty segment