**CNG 491 - Senior Project and Seminar:Design**



**Test Plan Outline**

**Project**

Smart Home Senior Project

**Group Members**

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# Introduction

This report contains all the test plan that will be implemented to “Smart Home Prototype Senior Project”. The plan that we consider consists testing strategies, test items, features to be tested & not to be tested, criteria that is about pass/fail, test deliverables and test schedules.

# Testing Strategy

We decided to use unit test, integration test, smoke testing, validation testing, stress testing, system testing.

* In that project unit test must be tested because there are many function which is written with different software language.
* Project is containing many mobile application and backend process because of that, in these part of this project, we will test that with system and integration testing.
* Stress testing will be used for the backend and servers.
* Smoke testing is related with Smart Home since whole system should be tested when new components are added.
* Validation testing will give information about Smart Home Prototype Senior Project are satisfied or not.

# Test Items (Functions)

This section is giving information about test items that will be generate on the project.

1. Unit Test
2. System and Integration Testing
3. Stress and Performance Testing
4. Security Testing
5. Smoke Testing
6. Validation Testing
7. Alpha/Beta Testing

## Alpha/Beta Testing

* Participants: Anıl Peker
* The Units: User Interface and Optimization for Android and Web page.
* Methodology: In that testing case, according to survey that will be done, Android and web page will be developed by the participant. For the Android App, Google Developer Console will be used.

## Security Testing

* Participants: Anıl Peker
* The Units: Android Authentication
* Methodology: For authentication, android app will generate token for every login. In that test case, participant will send request with random token and will check security of personal and smart home information reachable or not.

Procedure for obtaining
a valid auth token from the Android Account Manager

Figure 1: Token Generator Algorithm

* 1. Validation Testing