

**Facial-recognition Based Bus Pass - FaceBass
Supplementary Specification**

Version 1.0

FaceBass	Version: 1.0
Supplementary Specification	Date: 17/Mar/2018
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Revision History

Date	Version	Description	Author
17/Mar/2018	1.0	Initial Specification	Radu Petrisel

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Supplementary Specification

1. Introduction

The supplementary specification captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

- quality attributes of the system to be built, including availability, performance, security, testability and usability.
- other requirements such as operating systems and environments, compatibility requirements, and design constraints.

2. Non-functional Requirements

2.1 Availability

The system is available for purchases and inspections 24 hours a day, 7 days a week, assuming an active internet connection is provided.

2.2 Performance

The system performs as follows:

- recognizing a person: < 2 sec
- updating profile (includes editing contact info and changing photo): < 1 sec
- log in and log out: <1 sec

All times are strongly dependent on the internet connection speed.

2.3 Security

All users of the system will have their own account, username and password based. Ticket inspectors will have their accounts created by a supervisor.

2.4 Testability

The system is easily testable. Simply use a person's photo and determine whether that person is found or not in the database and if he/she should or shouldn't be found.

2.5 Usability

The application is highly user friendly and should be usable by all English-speaking people.

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3. Design Constraints

The system is written in Swift and Python 3.x. It has a client-server architecture, MVC for the iOS application. The system only works on iOS 11 or newer devices.