# Data Requirements

### REQ-Data-1 User

The User collection shall have the attributes and keys as shown in the data dictionary Class: User.

**Class: User**

Entries of this class represent users of the system.

**Attributes:**

email - TEXT, maximum of 30 characters, contains a local part, an “@”-symbol and domain. E.g., local@domain.

password - string, maximum of 30 characters, minimum of 8 characters, and contains at least one of each character type: lowercase letters, uppercase letters and digits. Shall be stored in the database as a hashed value, see REQ-Account-8.

**Keys:**

The collection has the primary key: email.

# Function Requirements

## 7.1 Account

These functions are connected to the account creation of, and login to, user profiles. An account is exclusive to a single user.

## 7.1.1 Registration

### REQ-Account-1 Start view

**Prerequisite:** A user is on the first page of the application.

The user shall be able to choose between registering and logging in.

### REQ-Account-2 Set up account

The system shall support task 1.1.

**Task 1.1: Getting started**

**Purpose:** Allows the user to create an account and set up a profile within the system.

**Trigger/Precondition:** The user is not registered.

**Frequency:** Once per account.

**Description:** The user fills in account details and contact information.

**Sub-tasks:**

1. Visit the first page of the application.

2. Select register account.

3. Fill out registration form.

4. Verify identity.

### REQ-Account-3 Finished registration

**Prerequisite:** The user has filled out the registration form correctly.

When the user finishes their registration, they shall be redirected to verify their identity.

### REQ-Account-4 Email validity

**Prerequisite:** The user is entering their chosen email when creating an account.

The user shall be required to choose an email that adheres to the email attribute description in REQ-Data-1.

### REQ-Account-5 Email validity, not fulfilled

**Prerequisite:** The user is entering their chosen email when creating an account.

If the data format in REQ-Account-4 is not fulfilled, the user shall receive an error message asking them to change their email to follow the requirements.

### REQ-Account-6 Password security, complexity

**Prerequisite:** The user is entering their chosen password when creating an account.

The user shall be required to choose a password that adheres to the password attribute description in REQ-Data-1.

### REQ-Account-7 Password security, not fulfilled

**Prerequisite:** The user has submitted their chosen password when creating an account.

If the data format in REQ-Account-6 is not fulfilled, the user shall receive an error message asking them to change their password to follow the requirements.

### REQ-Account-8 Database storage, general

**Prerequisite:** An active user has a created account.

The information provided by the user, as of REQ-Data-1, shall be stored in the database.

### REQ-Account-9 Database storage, password

**Prerequisite:** An active user has a created account.

The password provided by the user shall be stored salted & hashed in the database.

### REQ-Account-10 New login unit

If login data from a new unit is discovered for an account, an e-mail shall be sent out to the

registered address to notify the user.