**Use Case ID:** SOS24 – 2 Factor Authentication

**Use Case Level:** Security.

**Details:**

* **Actor:** User (Organizer, Member, Guest)
* **Pre-conditions:**
  1. User have made an account on the web app already.
  2. User enabled 2FA in their profile settings.
* **Description:**
  1. Use case begins when the User goes under their profile preferences in the security tab.
  2. The system generates a 2FA seed and asks the User to connect either Google Authenticator or such services (To be determined) using the generated seed.
  3. The system checks that authenticator app is successfully connected to their account on the website by asking for a generated 2FA code on the authenticator app.
  4. The case ends when the correct generated code is entered.
* **Relevant requirements:**

Authenticator applications such as Duo, Google Authenticator or SMS (TBD).

* **Post-conditions:**
  1. The User needs to provide 2FA generated codes every time they are trying to log in to their account on the website.
* **Alternative Courses of Action:**

**Extensions:**

None.

**Exceptions:**

None.

**Concurrent Uses:**

None

**Related Use Cases:**

None

**Decision Support**

**Frequency:** On average, 5 attempts per day.

**Criticality:** High. The system should ensure correct access and privileges.

**Risk:** High. This is a standard security measure that does not require a lot of work to implement.

**Constraints:**

* Usability
  1. User must be aware of their privileges and what actions those privileges permit.
* Reliability
  1. Mean Time to Failure – 1% failure yearly is acceptable.
  2. Availability – 30 minutes in a 24-hour period for backup and maintenance.
* Performance
  1. Privilege Checks should be done within 2 seconds.
  2. The system should handle 20 privilege checks in 1 minute.
* Supportability
  1. Should be supported by all browsers.
* Implementation
  1. Using Java-based software for back-end.

**Modification History**

**Owner:** Kian Maroofi

**Initiation date:** 09/10/2019

**Date last modified:** 09/10/2019