

Requirements

Cloud-based

The local system must be able to

- Upload local user data to server to have information stored in cloud
- Upload data to server whenever local data is modified, if server unreachable: re-attempt upload when connection restored
- Fetch data from server in case of logging in

Non-functional

- Send and retrieve data securely
- Try to reduce downtime of server (implement in a way that performance-heavy tasks are executed by local application if possible)
- Data sync should not significantly impact system performance

Registration/Login

The user is able to

- Create an account
- Login using credentials (email and password)
- Logout
- Reset password
- Save login/Remember password

The system can

- Store user data locally (and upload to the cloud (see: Cloud-based))

Login process:

1. User interface for login
 - fields: email, password
 - box: save password
 - links: forgot password, register
 - login button
 - wrong password or email popup if information entered is wrong
2. If login from new device, send verification email/text.
3. Main Page

Registration process:

1. User interface for registration
 - fields: name, email, password, confirm password
 - info: password requirements, notice of clicking on Sign up button
 - hyperlink: T&C and PP

- button: Sign up, Back button (to login page)
- 2. User interface to confirm email
 - back button
- 3. Link mobile phone to account (optional)
 - enter phone number and then enter code sent via text message
 - or skip
- 4. Questionnaire (to be defined), used to gather information on how systems will work / be able to help user
- 5. Main Page (to be defined which page is default page)

Non-functional

- Password verification
- use cookies / ip to determine if login is from a new device.
- Email confirmation (and email verification)
- Phone verification message should be sent in small time frame.
- Store user data securely

Calendar

User can

- Add an event
- Add groupings (color code for events)

System can

- Fetch lecture dates from my.bham into grouping and events
- Fetch deadlines from Canvas into grouping and events
- Displays calendar in some format (to be determined)

ToDo

User can

- add todo
 - name todo
 - add notes
 - color code
 - add category
- edit todo
 - edit categories above
- remove todo
- The user can add todo
- The system can extract Canvas events as todo deadlines

Wiki

contains

- useful information for the student's mental health (also links to existing services and assistance at uni)
- useful information and tips on any tracking-related topics

Tracker

First time

- Request permission to access existing tracked information on device (e.g. Health apps)

System can

- import tracking data from all permitted tracking applications
- display progress for different time intervals (day, week, month, year)
- perform tracking analysis to recommend user options of improvement (see: Tracker process)
- send reward notification when achieving goals

User can

- Add tracking data manually (e.g. [+] slept x hours)
- Remove manually entered tracking data

Tracker process:

1. Create recommendation based on tracking AI (trained to recommend based on positive changes of the user?)
2. Send notification to user (e.g. slept sufficiently / caught up on sleep tonight)

Non-functional

- Perform tracking analysis every hour
- Appealing interface for progress of tracking so user is more likely to add tracking information

Extendable:

- Import data from more third party apps people might be already using
- Compare to friends (if option is turned on) and add tokens (achievements)

Account Management

Change account login details (email/password)

1. Enter current and new email/password.
2. UI to change credentials
 - fields: old password, new password, confirm new password
 - confirm and cancel box

Add Phone

1. Enter phone number
2. Verification code sent via sms
3. Enter verification code.

Show devices

- Show the user all the devices that are logged into the account
- allow user to log out any of these devices so these devices must re-enter login details and get kicked out of current session

Non-functional

- check if password is of a certain complexity
 - > 10 signs total, < ? signs total
 - must contain at least one of each: LC letter, UC letter, symbol, digit
- sending verification email/ messages should be done in small time frame
- store all new user data securely