



User Manual

Group 19

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Contents

1	Introduction	2
2	Installing the app	2
3	Login	2
3.1	Registration	3
3.2	Forgot password	3
3.3	Sign-in	3
4	Interfaces	3
4.1	Profile	4
4.2	Dashboard	4
4.2.1	Adding tasks	4
4.2.2	View details of task	5
4.2.3	Clear task list	5
4.3	Planning	6
4.3.1	Create/update schedule	6
4.3.2	Complete task	7
4.3.3	Extend task	7
4.3.4	Study-mode	7
4.4	Settings	8
4.4.1	Reset planning	8
4.4.2	Set intensity preferences	8
4.4.3	View/change availability	8
4.4.4	Delete account	9
5	Multiple device support	9

1 Introduction

With friends, hobbies, and other activities, some people might have a hard time planning their tasks efficiently, especially students. This issue is amplified because of the corona crisis where some people might be demotivated or be less organized due to online classes.

A less organized planning might be the cause of cramming, all-nighters or study sessions replacing moments with your friends, video games and other entertainments and no one wants any of this to happen. This can also add a lot of stress onto the shoulders of students.

SmartPlan helps to overcome these struggles. It helps students plan their schedules based on the priority of each deadline, so that they are well organized and on track. Besides, the app will help students stay focused when studying.

2 Installing the app

SmartPlan is not available in the Google Play Store, hence an APK file with the app will be needed to be installed directly on the phone. To install the APK file, it might be necessary to allow the installation of apps from unknown sources in your device's settings.

3 Login

To use the application, you need to have an account. Upon opening the application, you will see the sign-in page as shown in Figure 1. On this page, you can either sign-in using an existing account or register a new account using the sign-up button, which will redirect you to the register window as illustrated in Figure 2.

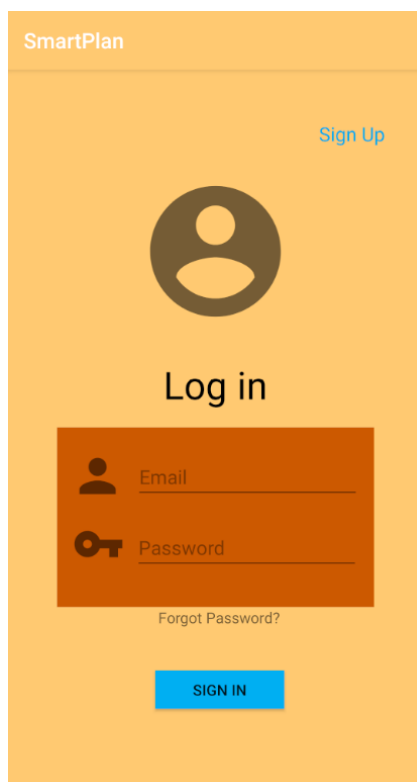


Figure 1: Sign-in window

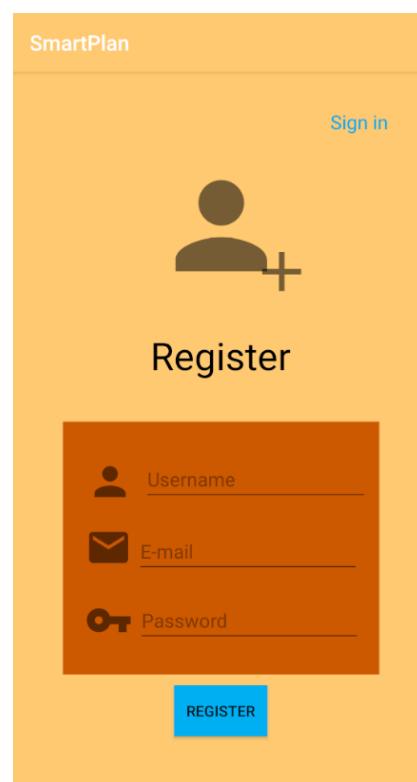


Figure 2: Register window

3.1 Registration

To register a new account, you need to provide a username, e-mail and password. For safety, the password must be longer than 6 characters. When you have filled in all details, you can press *Register* to create your new account. A verification e-mail will be sent to the provided mail address. Once registered, you'll automatically sign-in.

3.2 Forgot password

If you forgot your password, you can reset it via the sign-in window (Figure 1). On this window, you can press *Forgot Password?*, which will redirect you to the Reset Password window as shown in Figure 3. By providing the e-mail address of your account, you can request an e-mail via which you can reset your password.

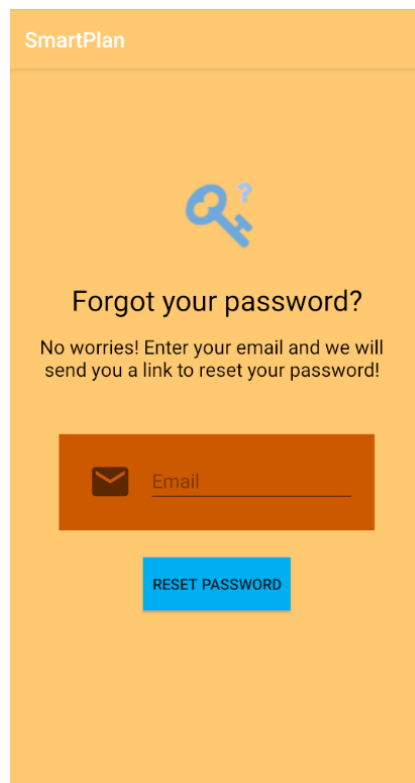
The image shows a mobile application screen for the 'SmartPlan' app. At the top, the 'SmartPlan' logo is visible. Below it is a blue key icon with a question mark. The text 'Forgot your password?' is centered. Below this, a message says: 'No worries! Enter your email and we will send you a link to reset your password!'. There is an input field with an envelope icon and the placeholder text 'Email'. Below the input field is a blue button labeled 'RESET PASSWORD'.

Figure 3: Reset Password window

3.3 Sign-in

If you already have an account, you can sign in by filling in your details on the sign-in window. By clicking the *Sign-in* button, you will sign in to your account. On re-opening the app, you will automatically be signed in.

4 Interfaces

Once signed in, you can visit four interfaces in the application. Navigation between interfaces is possible using the navigation bar on the bottom of the screen. In Figure 4, the navigation bar is illustrated. From left to right, you can visit the *Profile*, *Dashboard*, *Planning* and *Settings* interface. The possibilities of each interface will be discussed below.



Figure 4: The navigation bar

4.1 Profile

In the profile interface, you can see the username and e-mail address linked to your account. In here, you can press the *Reset Password* button to reset your password. You'll need to provide your old password and fill in a new password, that is different from the old one. Besides, you can press the *Sign-out* button to logout from your account.

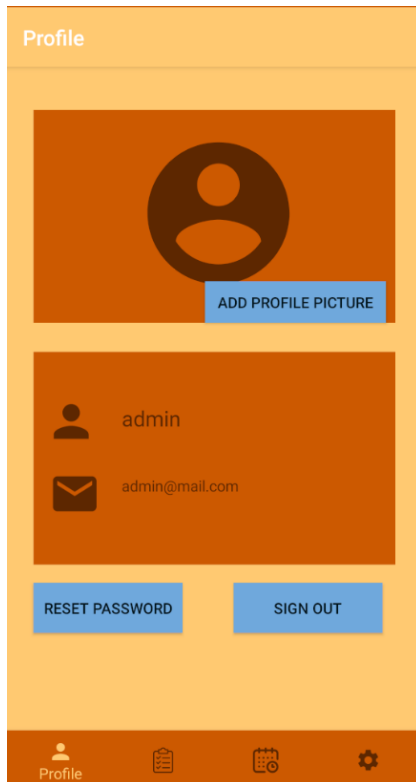


Figure 5: Profile interface

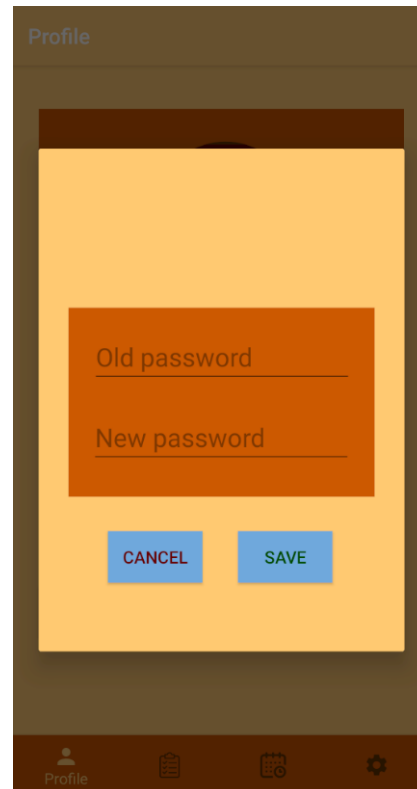


Figure 6: Reset password

4.2 Dashboard

In the dashboard interface, you can see your task list in a scrollable interface as shown in Figure 7. Furthermore, you can add new tasks that need to be scheduled, see the details of a task and clear the whole task list.

4.2.1 Adding tasks

Using the plus-button on the bottom-right of the screen, you can add a new task. Pressing this button will create a pop-up window in which you need to provide the details of the task (Figure 8). For each task, you need to provide the following:

1. Name. The unique name of your task. There cannot be two tasks in either the schedule or task list that have the same name.
2. Estimated time needed. Duration of your tasks in the format "hh:mm".

3. **Intensity.** The intensity of the task can be either *Relaxed*, *Normal* or *Intense*. It will set the maximum duration you can spend on that task per day. The values of these intensities can be set in the Settings, as explained in Section 4.4.
4. **Difficulty.** The difficulty of the task can be either *Easy*, *Medium* or *Hard*. The difficulty is used as a label in the schedule to easily distinguish difficulty levels between tasks.
5. **Deadline.** The deadline of the task is used to make sure the task is planned before this deadline. The deadline cannot be in the past and not the same date as today's date.

If you filled in all details, you can press the Save-button to add the task to your task list. If not all details have been filled in (correctly), a pop-up warning will appear.

4.2.2 View details of task

If you want to view the details of a task on your task list, you can simply tap the task box. This will show an information pop-up, displaying all details of the task (Figure 9). On this pop-up, you can press *Delete* to delete that particular task from your task list.

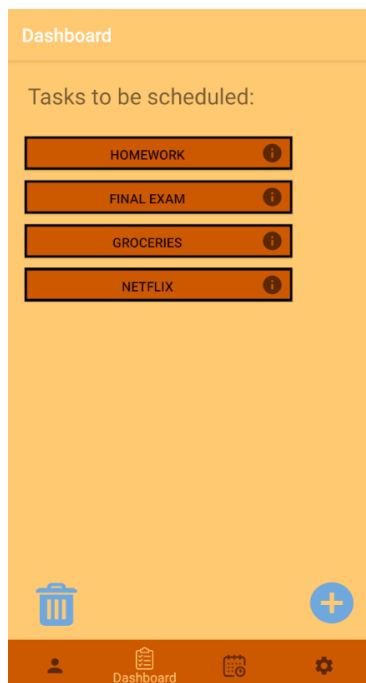


Figure 7: Dashboard interface

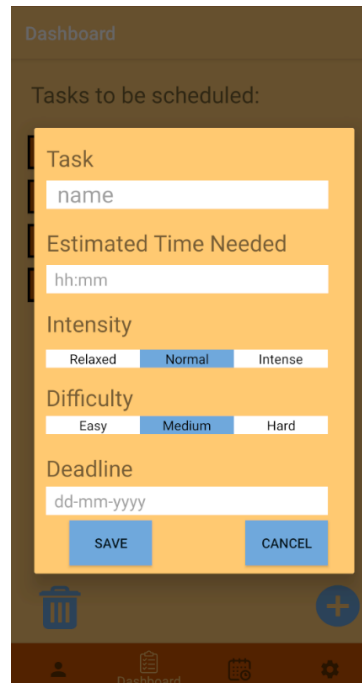


Figure 8: Adding a task

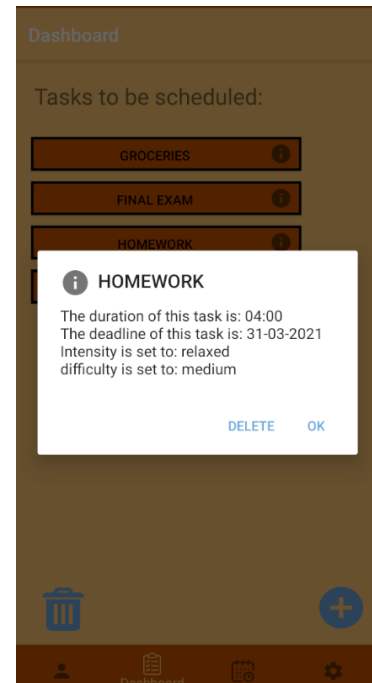


Figure 9: Viewing a task

4.2.3 Clear task list

If you want to clear your whole task list, you can simply press the Trash Bin button on the bottom-left of the screen (Figure 7). Pressing this button will permanently delete all tasks from the task list.

4.3 Planning

In the planning interface (Figure 10), you can create a planning and enable study-mode. Before you can actually create a planning, you need to have added some tasks and an availability. Adding tasks is described in Section 4.2.1, setting an availability is described in Section 4.4.3.

4.3.1 Create/update schedule

If you have tasks and an availability, you can press the *Create schedule*-button to create a planning of your tasks given your availability. Each task will be removed from the task list and planned before its deadline and in an availability slot. In the planning interface, you will be able to see the created schedule. You can see the date a task is planned on, the start- and end-time and the difficulty label as illustrated in Figure 11. The label green corresponds to easy difficulty, orange to normal and red to hard difficulty.



Figure 10: Empty planning

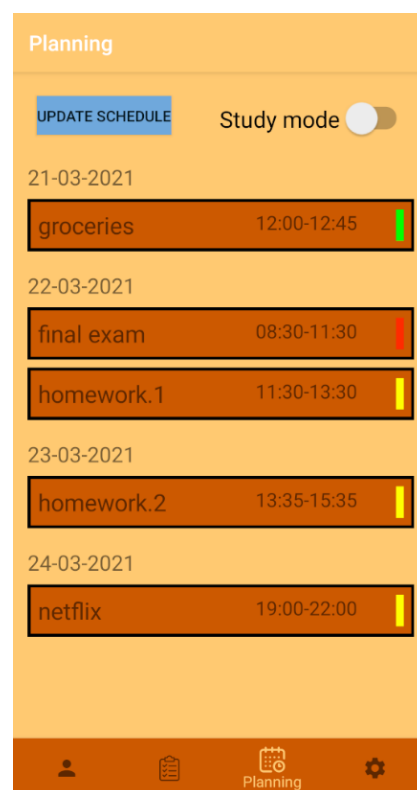


Figure 11: Filled planning

As visible in Figure 11, the task called *homework* is split into two parts. This has to do with the set intensity. The intensity of *homework* has been set to *relaxed*, which is set to 2 hours in this example. This means that the task, which has a duration of 4 hours, will be split into subtasks of at most 2 hours and planned on different dates. The setting of intensity preferences is described in Section 4.4.2.

If not all tasks fit in your availability, you will be notified to increase your availability. These unplanned tasks will remain in your task list. If you add new tasks to your task list, you can press the *Update schedule*-button to include these new tasks in your planning.

4.3.2 Complete task

If you have completed a task, you can tap on the task in the planning interface. This will show a pop-up window as shown in Figure 12. If you press the *Delete* button, it will ask for confirmation (Figure 13).

If the end time of a planned task is exceeded, the application will show a pop-up window asking if you finished the task (Figure 14). Clicking on the *Yes* button will delete the task from your schedule. Clicking on the *No* button will open the Extension Window, which will be discussed in Section 4.3.3.

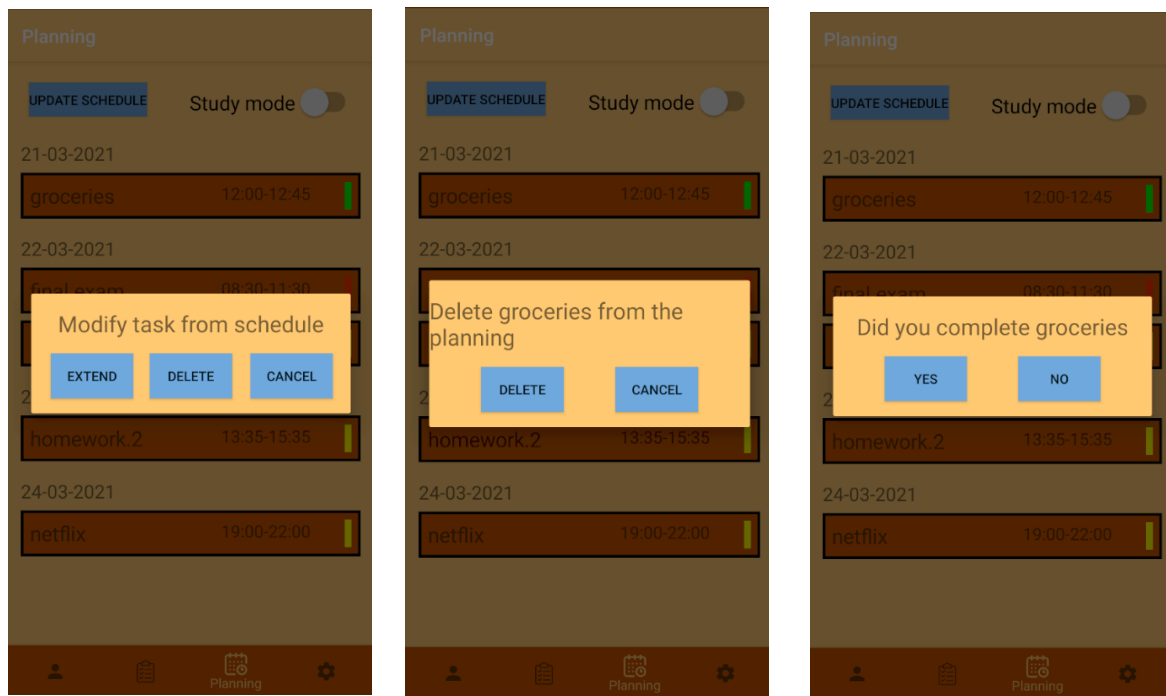


Figure 12: Planning item pop-up
Figure 13: Delete task from planning
Figure 14: Time of task is exceeded

4.3.3 Extend task

If the planned duration of the task is not sufficient, you can update the duration of an item in the planning. By clicking on a task (Figure 12), you can press the *Extend* button to create a new pop-up window in which you can update the duration, as illustrated in Figure 15. You can set a new duration and possibly adapt the deadline. If everything is set, you can press *Save* to automatically re-plan this particular task.

The Extension Window is also shown if the end time of a task is exceeded, and you press *No* on the corresponding pop-up (Figure 14).

4.3.4 Study-mode

In the top right of the planning interface, there is a study-mode switch. If this switch is activated, the study-mode will be activated. By activating the study-mode, you will receive notifications from the application whenever the phone moves. This is illustrated in Figure 16.

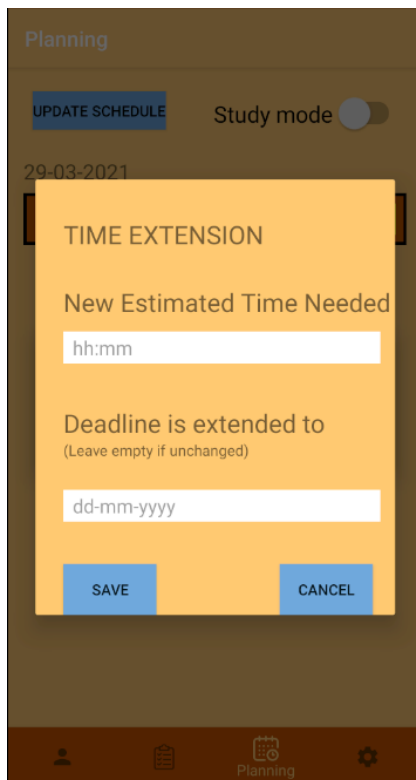


Figure 15: Extension of a planned task

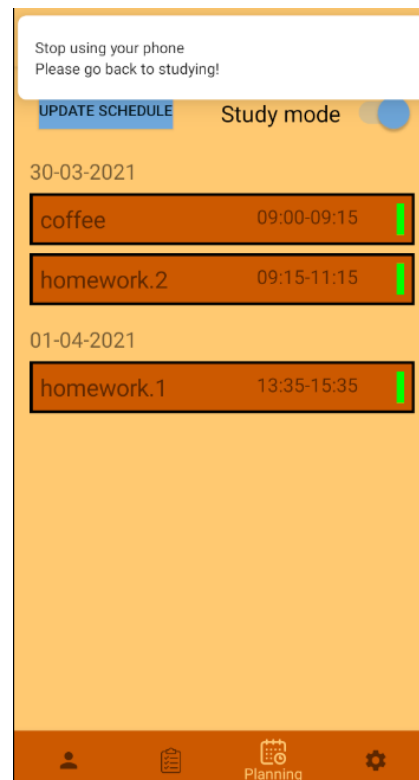


Figure 16: Study mode notification

4.4 Settings

In the settings interface (Figure 17), you can reset your planning, set your intensity preferences, view/change your availability and delete your account.

4.4.1 Reset planning

Using the *Reset Plannings* button on the settings page, you can clear your created schedule. You can choose to either delete the planned tasks, or to move them back into your task list.

4.4.2 Set intensity preferences

The current intensity preferences are shown on the settings interface. The set intensities determine the maximal timeslot of a task per day. The default settings are as follows:

- Relax: 2 hours.
- Normal: 4 hours.
- Intense: 8 hours.

To customize these preferences, you can change any value via the settings page. Once done, you can press the *Save* button to save your preferences. All preferences should be set to at least 1 hour.

4.4.3 View/change availability

From the settings page, you can view and change your availability. By pressing the *View/change Availability* button, a pop-up window, presenting your current availability, will appear (Figure 18). From this window, you can add a new availability and clear your whole availability.

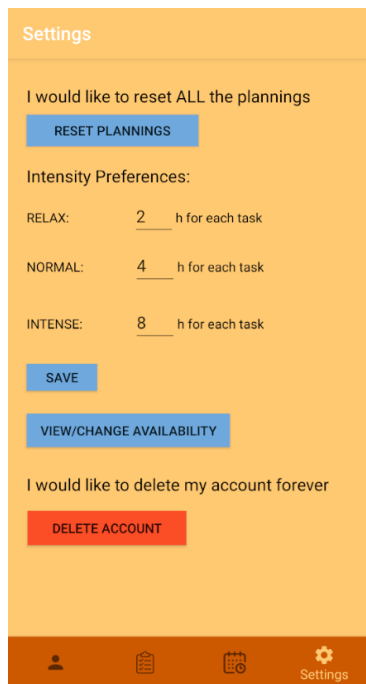


Figure 17: Settings interface



Figure 18: View/change availability

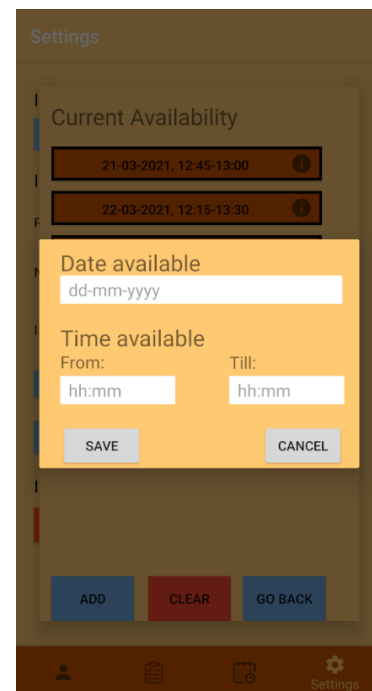


Figure 19: Add availability

By pressing the *Add* button shown in Figure 18, a pop-up window will appear in which you can put in a new availability. This is illustrated in Figure 19. For a new availability, you have to provide a date, which cannot be today's date or a past date, and a valid start- and endtime. If everything is filled out, you can press the *Save* button to save that particular availability.

Whenever you add, delete or clear your availability, the application will ask you if you want to clear your created schedule and whether your planned tasks should be restored to your task list.

4.4.4 Delete account

You can delete your account by pressing the *Delete account* button in the settings interface. This will permanently delete your account and the corresponding data. Once deleted, you cannot restore your account.

5 Multiple device support

The application supports the use of multiple devices. As all your data is stored on a database, instead of locally, all changes are directly visible on all your devices where you are logged in. If you activate study-mode, study-mode will be activated on all your devices. In addition, if one of your devices moves during study-mode, all your devices will receive a notification.

To prevent that data is stored incorrectly when changing your data simultaneously on multiple devices, the application will only allow changing of data to happen on one device at a time. If you try to change your data on multiple devices simultaneously, one device will receive a notification. This is illustrated in Figure 20.

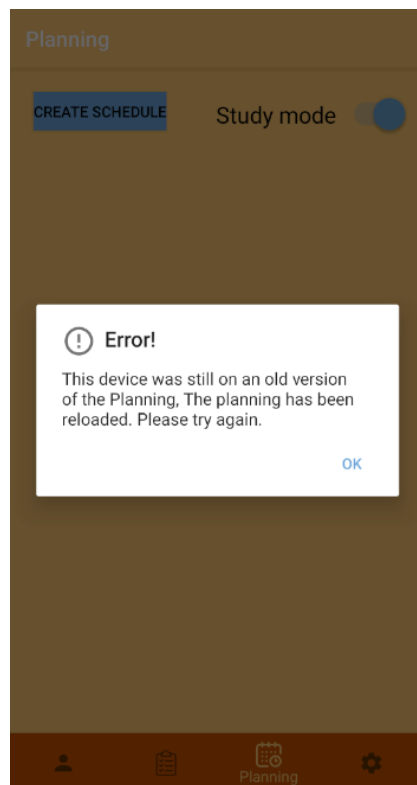


Figure 20: Warning simultaneous data modification