AURORA: Internal Testing Protocol - February 2023

This protocol will guide you through the process of testing the app systematically. Please follow the instructions for each section, and complete the corresponding questions. At the end of the protocol, you will also have the opportunity to use the app on your own terms and give general feedback.

The test is mainly designed to identify potential issues in using the app, for instance where functionality might appear to be broken, or if data entries produce unexpected results. The app development is obviously a moving target, so that there are already several additional features planned for future releases, yet for the time being, we are aiming for a polished user experience of the core features to allow a smooth public launch by the end of the month. We may also repeat this testing process in the future for additional or revised features / versions.

* Indicates required question

Downloading the App

During the testing phase, the app is only available for iOS devices. An Android version will be implemented as soon as we are all satisfied with how this first version runs reliably. Users of Android devices are warmly invited to complete this Protocol by watching a ▬▬▬ ▬▬▬▬▬▬▬. (video demonstration)

For Apple Users (iOS/iPhone/iPad):
If you are using an iOS Device, please download the App: ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬
You will be asked to download the "TestFlight" App from Apple, which in turn then lets you download the AURORA App. Should you get stuck, we recommend checking the ▬▬▬ ▬▬▬▬▬▬▬, which follows this protocol.

For Android Users:
If you are using an Android device, please watch the narrated ▬▬▬▬▬▬▬▬▬▬▬.
It goes without saying that you will not be able to experiment with the app directly quite yet, but we would still appreciate your feedback on the general workflows, based on what you observe in the video. Please note that all questions in this Protocol are phrased from the perspective of iOS users who can actually interact with the app. Please answer these questions just as if you were performing the actions that are actually performed for you in the video. The following screening question allows us to distinguish which method you are using to complete this protocol.

1. Are you using an **Android or iOS** device? *

   Mark only one oval.

   ◯ Android. I will be following the video-based walkthrough.

   ◯ iOS. I will download the app and try out functions directly.

   ◯ Other: _____

2. If using an iOS device, have you managed to download and install the **AURORA** *
   app from TestFlight?

   ██████████████████████████████████

   Mark only one oval.

   ◯ Yes, I have downloaded and installed the app.

   ◯ No, I encountered an issue downloading the app from TestFlight.

   ◯ Android user / Not applicable

*Users of an iOS device who have not managed to download the app through
TestFlight, please contact both* ████████████████ *and* ████████████████ *for
support.*

Registering an Account

At the end of this section you should have tested the user experience of registering an
account and entering core data about yourself.

Please follow the steps below:

1. Locate the AURORA App on your device and open it.
2. You should see the account registration screen giving you three options to choose
   from: "Continue with Apple", "Continue with Google", and "Continue with Email".
3. Choose your preferred registration method and continue (and feel free to repeat this
   test for the remaining types after deleting your previous registration).
4. You should now be be asked to create your profile by providing some information
   about yourself.
5. Please make sure to select your country of residence correctly (or alternatively the
   option "Europe"), if you are not based in any of the five demo-sites.
6. Optional: Feel free to repeat this process for as the other type(s) of registration. Do
   do so, you may first need to delete your previous registration under "Settings".

3. **Form of Registration**

Mark only one oval.

( ) I have tried to register via "Continue with Apple"

( ) I have tried to register via "Continue with Google"

( ) I have tried to register via "Continue with Email"

( ) Other: _____

4. Please **rate your experience** completing the above steps:

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Unsure
The registration process was easy to understand.	( )	( )	( )	( )	( )	( )
It seemed intuitive to me how to create my profile.	( )	( )	( )	( )	( )	( )
This function in the app is visually well designed.	( )	( )	( )	( )	( )	( )

5. Have you encountered **issues** completing the steps above? If so, please explain the steps you have taken leading up to the issue.

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Adding a Consumption

At the end of this section you should have tested the user experience of adding various consumption entries and reviewing the overall total.

Please follow the steps below:

1. Tap on the "Add consumption" button.
2. Choose one of the three consumption types (and feel free to repeat this test for the remaining types).
3. Enter your data accordingly, and save your consumption.
4. It will take a moment to calculate your carbon emission and update the chart.
5. Review your consumption by tapping on it. If you have added more than three consumptions, a complete view is available under "Show all entries".
6. Optional: You can review your carbon footprint calculation by manually entering your data in the ███████████████████. (carbon footprint calculator)
7. Optional: Try to delete a consumption by either swiping it to the left, or tapping the "trash can" icon in the detailed view.
8. Repeat this process for as many consumptions as you like, but ideally for at least one of each type (electricity, heating, and transportation).

6. Please rate your experience in completing the above steps.

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Unsure
It seemed intuitive to me how to add consumption(s).	○	○	○	○	○	○
This function in the app is visually well designed.	○	○	○	○	○	○
The carbon footprint calculation of my consumption was accurate (select "Unsure" if you did not test this).	○	○	○	○	○	○
The carbon footprint summary was easy to understand.	○	○	○	○	○	○
The detailed consumption view (step 5) was easy to understand.	○	○	○	○	○	○
Deleting consumptions worked as expected.	○	○	○	○	○	○

7. Have you encountered **issues** completing the steps above? If so, please explain the steps you have taken leading up to the issue.

Adjusting Settings

At the end of this section you should have tested the user experience of using the "Settings" tab and making various adjustments.

Please follow the steps below:

1. Switch over to the "Settings" tab, by clicking on it at the bottom of your screen.
2. Adjust some your profile information by clicking on "Edit profile". Note that your country cannot be edited any more once you have registered your account.
3. Try to log out and then back in to the app.
4. Return to the settings tab.
5. Add a reminder for a consumption category. You should be asked to allow notifications from the AURORA App on your device.
6. Try setting the notification to "Daily", for example a few minutes from your current time. Check then if the notification will come through. Note: The "Notifications" settings reset when you log out and back in to the app, so please make sure to check your settings after step 2!
7. Optional: Try to download your data as a .json file and review whether it includes the data you expect.
8. Optional: Try to delete your account. This will obviously wipe all your data, and you will need to register again.
9. Take a look at the "Feature Preview" to get a sense of some new features we are currently working on!

8. Please rate your experience completing the above steps

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Unsure
It seemed intuitive to me how to adjust my profile information.	⬭	⬭	⬭	⬭	⬭	⬭
This function in the app is visually well designed.	⬭	⬭	⬭	⬭	⬭	⬭
I successfully logged out and back in to the app.	⬭	⬭	⬭	⬭	⬭	⬭
Setting up a notification reminder was easy to understand.	⬭	⬭	⬭	⬭	⬭	⬭
My data export has all the information I had expected (select "Unsure" if you did not test this).	⬭	⬭	⬭	⬭	⬭	⬭
I could delete my account without any problem (select "Unsure" if you did not test this).	⬭	⬭	⬭	⬭	⬭	⬭

you did not
test this).

9. Have you encountered **issues** completing the steps above? If so, please explain the steps you have taken leading up to the issue.

Free Testing

10. Thank you for getting this far with our test! Your feedback will help us deliver a high quality mobile application for AURORA. Lastly, please feel free to **explore the app on your own terms**, and let us know of any issues you may encounter. Please explain the steps you have taken leading up to the issue, so we can try to replicate those and fix the problems.

11. Feel free to leave **any other feedback** here, maybe aspects that do not necessarily relate to specific issues with the app's functionality.