



eazen

Intelligent ambience for intelligent spaces.

what is eazen?

eazen is a smart hub that offers the user total control of their environment's ambience.

brainstorming a smart product...

eazen was built on seamless device integration to ensure a comfortable custom experience for the user.



These sketches illustrate the thought process behind most of the pairing processes afforded in the app including connections to other smart devices, bluetooth devices, and music streaming accounts.

the hub itself...

The **eazen** hub is a wall mounted device that allows for direct connections to outside devices. In addition to mirroring the app, it also signals the mode of the system at all times.



The circular logo communicates the user selected/created mode through color.



USB ports are located on the side of the device to afford for direct device connections. The hub communicates with the app through bluetooth or WiFi.

designing the app...



With the pairing processes in mind, I started designing the basic app. This original design affords the user a straight forward set up process, which I aimed to preserve in the final design.

the final product...

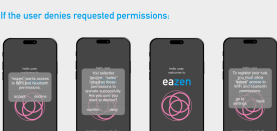


- Content Notes 1-3
- Splash page.** Clicking on the "register your hub" button prompts the permissions pop-up.
 - WiFi and bluetooth permissions pop-up.** The user can either accept or decline the app permissions. If the user chooses to accept the permissions, they are taken to the "register page".
 - Register Your Hub page.** On this page, the user must register their hub by scanning the QR on the packaging of the hub.
- Content Notes 4-6
- Register Your Hub page.** When the user scans the QR code properly, a "success" message is shown on the app while the hub itself will light up and sound a "ding" when successfully connected. A button allowing the user to continue to the set up process also appears. If the user clicks this button, they are taken to the set up page.
 - Set Up page.** The set up page contains options for the user to pair devices, connect accounts and go to the home page of the app.
 - Devices page.** This page shows a list of currently paired devices and affords the user the ability to pair new devices.
- Content Notes 7-9
- Pairing page.** If the user selects "add new device" the app takes them to this page, in which the user is required to name their device, specify device type, and specify the device's connection type.
 - Pairing page cont.** When the user fills out the required spaces, the user can pair the device using the highlighted "pair" button.
 - Devices page cont.** When the device successfully pairs, the user is taken back to the devices page, where the new device can be seen added to the list. The successful pairing feedback varies per device. If the device is a speaker, a "ding" will sound, but if the device is a light bulb, the light will softly change colors.
- Content Notes 10-12
- Set Up page cont.** If the user selects the "set up" button on the previous page, they are taken back to the set up page. The "pair devices" button is now pink to signal to the user that they have already paired some devices.
 - Accounts page.** If the user selects the "connect accounts" button on the set up page, it will take them to the accounts page on which the user must specify the account name and the account type.
 - Accounts page cont.** When the user fills out the required spaces, the user can connect the account using the highlighted "connect" button. A browser will pop up to require two-factor authentication from the account's original company to ensure proper security and privacy.
- Content Notes 13-15
- Accounts page cont.** When the account is successfully integrated, it appears on the accounts list.
 - Set Up page cont.** If the user selects the "set up" button on the previous page, it will take them back to the set up page. The "connect accounts" button is now pink to show the user that they have already connected an account. The last button, "home", takes the user to the home page.
 - Home page.** This is the home page of the app. It lists the user's modes, allows the user to add or edit modes, and allows the user to access the app settings.

addressing the edge cases...

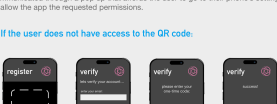
The **eazen** app is required to handle three edge cases which users may encounter during the setup process of the device. Overlooking these cases may result in system failure.

1. If the user denies requested permissions:



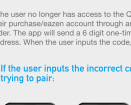
If the user declines the app's request for WiFi and Bluetooth permissions, the app will ask the user again if they want to decline the permissions. If the user selects "confirm" the set up process will continue as normal. If the user selects "decline" the app will not move past the splash page until the user accepts the permissions. This is communicated through a pop up that affords the user to go to their phone's settings to allow the app the requested permissions.

2. If the user does not have access to the QR code:



If the user no longer has access to the QR code on the packaging, they can verify their purchase/eazen account through an email or phone number associated with the order. The app will send a 6 digit one-time code to either the phone number or email address. When the user inputs the code, the set up process will continue as normal.

3. If the user inputs the incorrect connection type for the device they are trying to pair:



If the user selects the wrong connection type for a device during the device pairing mode, the app will have a pop up instruction to the user to check the device again, or to try a different connection type. This loop continues until the user selects the correct connection type.