

## Design Ideation

### Intro/overview

This phase of our product design focused on developing a wide range of features that could be added to our product in order to best meet the previously identified user needs and product requirements. Through structured brainstorming, idea organization, and concept development, we were able to produce three distinct product concepts.

### Generating Ideas

For each user need and product requirement, brainstorm 5 different product features that could be used to satisfy that requirement.

requirement / need	feature	detail
Product has different brightness settings	adjustable brightness setting	Device has manual settings (button) to allow users to cycle through preset brightness levels
Product has different brightness settings	light sensor	Device automatically adjusts brightness based on surrounding light conditions
Product has different brightness settings	touch screen display	Device uses a digital interface to control brightness
Product has different brightness settings	memory function	Device remembers and resumes last used brightness setting
Product has different brightness settings	auto dimming	Device gradually dims after prolonged use
Multiple units function simultaneously with each other	wireless synchronization	Units can automatically sync to operate together
Multiple units function simultaneously with each other	app control	Device operates with an app interface to control them as one
Multiple units function simultaneously with each other	main unit	One unit acts as the main one through which behavior of connected units is controlled
Multiple units function simultaneously with each other	signal relay	Units can relay signals to others
Multiple units function simultaneously with each other	remote controlled	Units can be controlled by a physical remote control when synced
Product has long lasting battery	high capacity battery	Uses a high capacity battery to hold charge for longer
Product has long lasting battery	low power mode	Device enters low energy state when not in active use
Product has long lasting battery	power saving components	Uses low energy components like LEDs to conserve energy
Product has long lasting battery	battery health display	Device uses lights to show battery state of product
Product has long lasting battery	solar charging	Device can recharge/remain powered by sunlight when not in use
Product is portable	handle/clip	Device has a handle or clip to easily transport it
Product is portable	swappable batteries	Device is battery powered to minimize components needed to use it
Product is portable	foldable stand	Product has a foldable stand to be able to stand it up and put it away
Product is portable	suction base	Device has a suction on one face to be able to hold the light anywhere
Product is portable	rechargeable	Device needs to be charged to operate to minimize additional costs
Product actives automatically	motion sensor	Device turns on when any movement is detected
Product actives automatically	scheduled activation	Product operates on a user-set schedule
Product actives automatically	audio sensor	Device activates in response to a specific sound pattern
Product actives automatically	light sensor	Activates automatically based on low light levels
Product actives automatically	touch sensor	Activates when light pressure is applied to a surface
Customizable Lighting	RGB LED	Vast color options
Customizable Lighting	Mechanical Panels	Mechanical panels to reflect the light differently
Customizable Lighting	Tunable LED	Warm, Flat, and Cool lighting
Customizable Lighting	Adjustable Lights	Multiple lights that can be pointed in different directions
Customizable Lighting	Night light mode	Not just a main light source, but can a mode for low light for sleeping

### Step Three

Add your context and tables

### Step Four

Add your different product concepts stuff here

Step Six (video link)

Embedded a YouTube video that covers the