

## Project Specification

Team 29

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### **Product Backlog**

<https://github.com/orgs/cmu-webapps/projects/28/>

Group	Function	Description
All Pages	Navigation Bar - Bracelet/Necklace/Rings Page - Customize Page - My Cart - Account	Users can click on navigation links to be redirected to different product categories or their personal account/cart
	Footer - About Us - FAQs	Users can access important links such as policies, external social media, about, and FAQs.
Home Page	Feature Image (Maybe use Slider)	Users can view sliding images that display featured products or promotions.
	Card Design for Different Categories - Find Your Crystal - New Arrivals - Best Sellers - Customize	A visually engaging interface that helps users quickly know about different categories. There will be several items displayed as a clickable card for each category.
Item Page - Bracelets - Necklaces - Rings	Items List (images, names, and pricing details)	Users can browse through all available bracelets, and navigate to the product details page.
	Filter	A filter tool to refine the list of products based on price, crystal type, material, or other attributes.
	Sort By	A sorting tool to arrange products based on price, popularity, or new arrivals.
Product Detail Page	Description	Images, description, and details about the product
	Add to Cart	The button that add the product to the cart
Customize	Bracelet - choose the crystal - arrange the bracelet	Users can select from a variety of available crystals, arrange and combine crystals in a bracelet according to their design preferences.
About Us Page	Our History	
User Profile Page	Lookup/edit user info - Change address	Users can check and modify their info, and lookup order status.

	- Reset password - History orders	
User Management	Create Account	Create new account to checkout
	Anonymous Browsing	Browse items without login
	Login	Simple Auth & OAuth
Cart Management	Add Item	Users can add item to their cart (from product page)
	Delete Item	Users can remove items in their cart.
	Modify Quantity	Users can edit quantities of items in their cart.
	Checkout	Users can checkout
Payment Management	Redirect to Stripe API	Checkout and manage payment using Stripe API
	Link Stripe to the database	Store user info collected from Stripe to our own DB
Optional Features	Chatbot	A chatbot to help user find their desired product
	Reviews	Users can leave review on a certificated purchase
	...	

### **The First Spring Backlog**

Group	Function	Team Member
Home Page	Feature Image (Maybe use Slider)	Waiola
	Card Design for Different Categories Find Your Crystal, New Arrivals, Best Sellers, Customize	Waiola, Jay
Item Page - Bracelets - Necklaces - Rings	Items List	Zach, Jay
	Filter	Zach
	Sort By	Zach

### **Product Owner (Sprint 1): Waiola Wu**

Andrew id: youwu

### **Models**

```

class Profile(models.Model):
    """User Profile Table"""

    user = models.OneToOneField(
        User, related_name="profile", on_delete=models.CASCADE
    )
    street_address = models.CharField(max_length=255)
    city = models.CharField(max_length=255)
    state = models.CharField(max_length=255)
    zip_code = models.CharField(max_length=10)
    telephone = models.CharField(max_length=15)


class Category(models.Model):
    """Category Table"""

    class CategoryType(models.TextChoices):
        BRACELET = "bracelet"
        NECKLACE = "necklace"
        RING = "ring"

    category_id = models.UUIDField(primary_key=True, default=uuid.uuid4)
    name = models.CharField(max_length=20, choices=CategoryType.choices)


class Product(models.Model):
    """Product Table"""

    product_id = models.UUIDField(primary_key=True, default=uuid.uuid4)
    name = models.CharField(max_length=255)
    price = models.DecimalField(max_digits=10, decimal_places=2)
    description = models.TextField()
    category = models.ForeignKey(Category, on_delete=models.CASCADE)
    quantity = models.IntegerField()
    created_at = models.DateTimeField(auto_now_add=True)
    updated_at = models.DateTimeField(auto_now=True)


class ProductImage(models.Model):
    """Product Image Table"""

    product = models.ForeignKey(
        Product, related_name="images", on_delete=models.CASCADE
    )
    image = models.ImageField(upload_to="product_images/")
    uploaded_at = models.DateTimeField(auto_now_add=True)


class Cart(models.Model):
    """Cart Table"""

    cart_id = models.UUIDField(primary_key=True, default=uuid.uuid4)
    user = models.ForeignKey(
        User, related_name="carts", on_delete=models.CASCADE
    )

```

```

    )
    created_at = models.DateTimeField(auto_now_add=True)

class CartItem(models.Model):
    """Cart Item Table"""

    cart = models.ForeignKey(Cart, on_delete=models.CASCADE)
    product = models.ForeignKey(
        Product, related_name="cart_items", on_delete=models.CASCADE
    )
    quantity = models.IntegerField(default=1)
    added_at = models.DateTimeField(auto_now_add=True)

class Order(models.Model):
    """Order Table"""

    class Status(models.TextChoices):
        PENDING = "pending"
        SHIPPED = "shipped"
        DELIVERED = "delivered"
        CANCELLED = "cancelled"

    order_id = models.UUIDField(primary_key=True, default=uuid.uuid4)
    user = models.ForeignKey(
        User, related_name="orders", on_delete=models.CASCADE
    )
    amount = models.DecimalField(max_digits=10, decimal_places=2)
    shipping_address = models.TextField()
    status = models.CharField(
        max_length=255, choices=Status.choices, default=Status.PENDING
    )
    created_at = models.DateTimeField(auto_now_add=True)

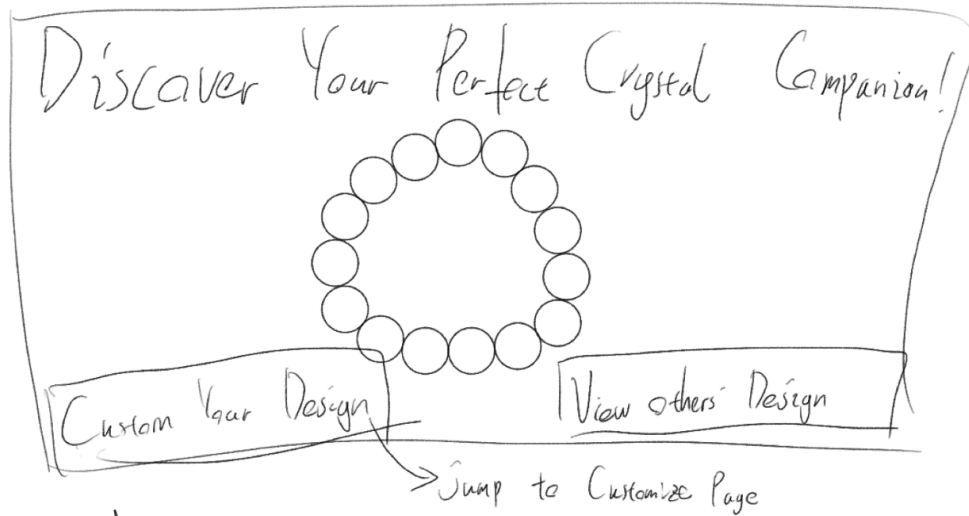
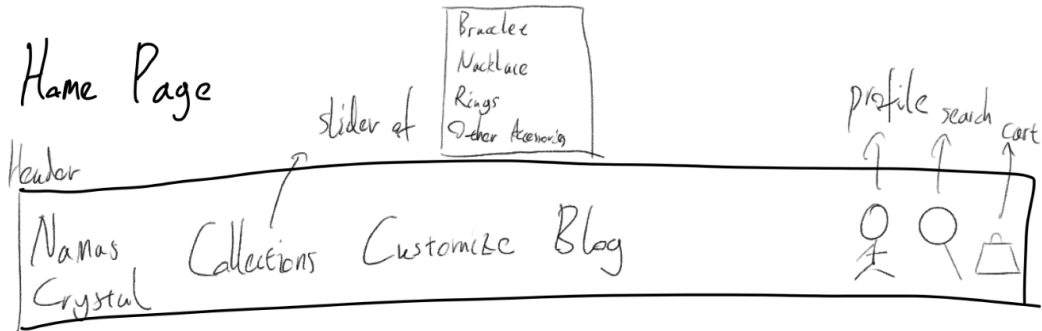
class OrderItem(models.Model):
    """Order Item Table"""

    order = models.ForeignKey(Order, on_delete=models.CASCADE)
    product = models.ForeignKey(
        Product, related_name="order_items", on_delete=models.CASCADE
    )
    quantity = models.IntegerField()
    price = models.DecimalField(max_digits=10, decimal_places=2)

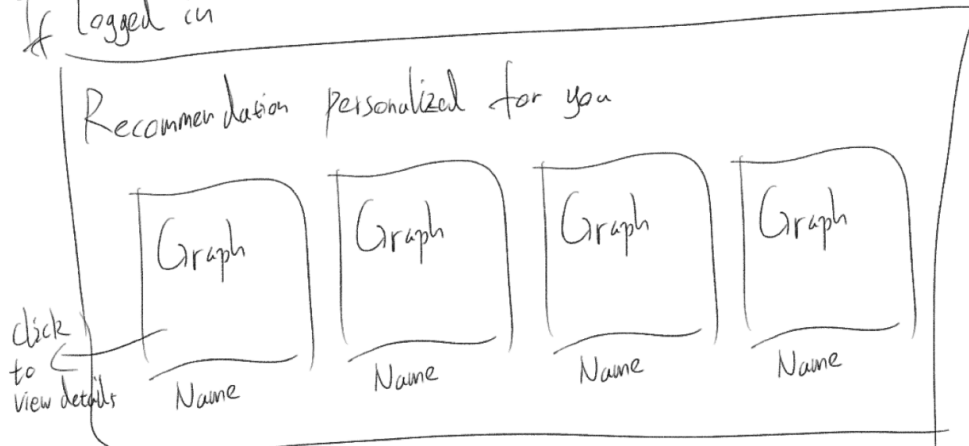
```

## **Wireframes**

# Home Page



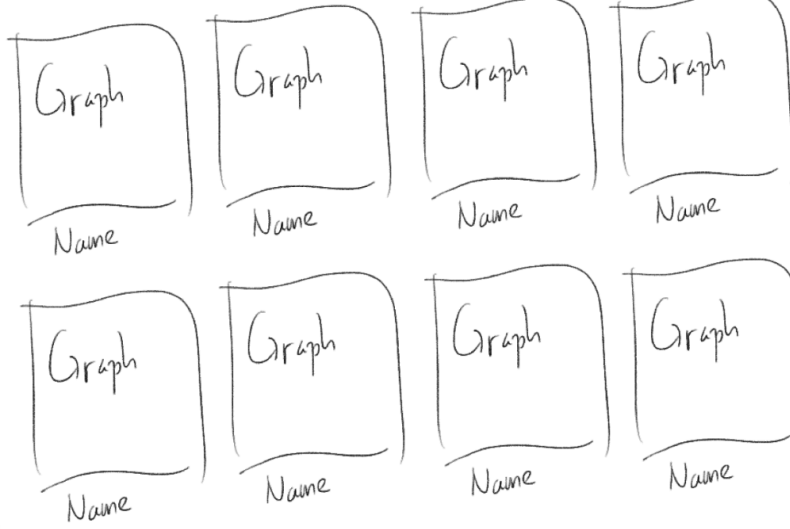
If logged in



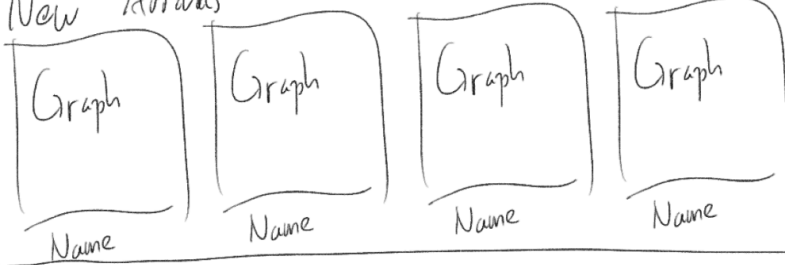
else

Login to Get your personalized Recommendations

Best Seller



New Arrivals



Footer		
Support	Legal	#NAMASCRYSTALS
Contact us	Shipping Info	Our Story
FAQ	Return/Refund Policy	Blog
facebook twitter instagram pinterest		
f X [2] P		

## Login / Signup Page

Login

Email

Password

Forgot password?

Sign In

Sign in with

Sign up

First Name

Last Name

Email

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## Shopping Cart Page

Cart

graph

Name	Price	specification	number	Remove
------	-------	---------------	--------	--------



You'll also like

graph	Name Price specification	Add

Checkout

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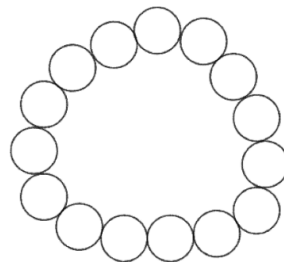
## Custom Design Page



previous bead

next bead

remove current bead



done

By Color   By material   By Spacer   By Ornament

White / pink Red Yellow brown Green Blue - -



White quartz



White chalcedony



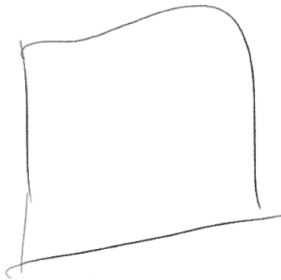
White quartz with smoky inclusions



White Agate

Blog Page

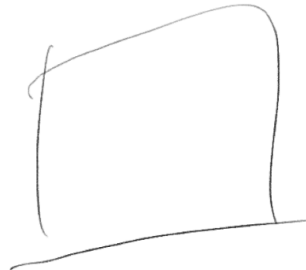
Latex Releaser



Title

Brief Intro

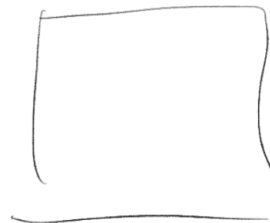
Read more



Title

Brief Intro

Read more



Title

Brief Intro

Read more