Meat App Final Blueprint

Business - APIs connection

Business Object	API Endpoint	Request Parameters	Response Data
User	/api/login	username, password	AccessToken, UserDetails
	/api/register	username, email, password	RegistrationConfirmation
Product	/api/products	query, filters	ProductList
	/api/products/:id	productId	ProductDetails
Order	/api/orders	userId, cartId, paymentDetails	OrderConfirmation, OrderDetails
Cart	/api/cart	userId, productId, quantity	CartDetails
	/api/cart/:id	cartId	CartDetails
Review	/api/reviews	productId, reviewText, rating	ReviewConfirmation, ReviewDetails
	/api/reviews/:id	reviewId	ReviewDetails
Favorite	/api/favorites	userId, productId, action	UpdatedFavoritesList
QR Code	/api/qr	qrCode	ProductDetails
Location	/api/map	locationQuery	MapData

FE Orchestration → **Story**

Narrative Arc	Access	Place
Login	User Access	Login Page
Search	Search Access	Search Page
Buy	Purchase Access	Buy Page
Find on Map	Map Access	Map Page
Manage Favorites	Favorites Access	Favorites Page
Scan QR	QR Access	QR Page
Add Review	Review Access	Review Page

Components

Place	ViewModel Components	View Components
Login Page	state.login, state.password, state.status	Label, Input (Username), Input (Password)
Search Page	state.query, state.results, state.filters	Label, Input (Search Bar), Filter Options
Buy Page	state.cart, state.payment, state.confirmation	Product List, Payment Options, Purchase Confirmation
Map Page	state.location, state.map	Location Query, Map Display
Favorites Page	state.favorites, state.add, state.remove	Favorites List, Add to Favorites, Remove from Favorites
QR Page	state.qr, state.details	QR Scanner, Product Details
Review Page	state.product, state.review, state.rating,	Product Selection, Review Text, Rating Input, Review

Micro-frontend

Micro-frontends	Views	ViewModels	FE Services
Login	Login View	LoggedInUser	Authentication Service
Search	Search View	SearchModel	Search Service
Buy	Buy View	PurchaseModel	Purchase Service
Find on Map	Map View	MapModel	Map Service
Manage Favorites	Favorites View	FavoritesModel	Favorites Service
Scan QR	QR View	QRModel	QR Service
Add Review	Review View	ReviewModel	Review Service

FE Orchestration

Workflow	Conditions	Inputs	Outputs
Login	User is not logged in	Username, Password	LoggedInUser, AccessToken
Search	User wants to find products	Search Query	List of products
Buy	User wants to buy a product	Product selection	Purchase confirmation
Find on Map	User wants to find a location	Location query	Location on map
Manage Favorites	User wants to manage favorites	User ID	Updated favorites list
Scan QR	User wants to scan QR code	QR code	Product details
Add review	User wants to add a review	Review text, Rating	Review confirmation

Backend Orchestration

Workflow Name	Step Description	BE Service Endpoint	Methods	Parameters	Response
User Authentication and Authorization	User logs in with credentials	/auth/login	POST	username, password	Status code 200 (Success), 401
	Retrieve user details for the session	/auth/user	GET	token	JSON object with user information
	User logs out	/auth/logout	POST	token	Status code 200 (Success)
	New user registration	/auth/register	POST	username, password	Status code 200 (Success), error
Feedback Management	User submits feedback for a product	/feedback/submit	POST	productId, userId (optional), rating,	Status code 200 (Success), error
	Retrieve feedback for a specific product	/feedback/:productId	GET	productId	JSON object with feedback details

BE Services

BE Service	Request	Resource
User Authentication	POST	Users Table
Product Management	GET,	Products Table
User Details Service	GET, PUT	User Details
News Service	GET,	News Articles
Basket Management	GET,	Baskets Table
Statistics Service	GET	Statistics Table
QR Code Generation	POST	QR Codes Table

APIs

BE Service	API	Endpoint	Input Data	Output Data
User Authentication	POST	/auth/login	{username, password}	{token}
Product	GET	/products	None	{products: [{id, name, price}]}
Product	POST	/products	{name, price, description}	{product: {id, name, price}}
User Details Service	GET	/users/{id}	None	{user: {id, name, email, ...}}
User Details Service	PUT	/users/{id}	{name, email, ...}	{user: {id, name, email, ...}}
News Service	GET	/news	None	{articles: [{id, title, content}]}
News Service	POST	/news	{title, content}	{article: {id, title, content}}
Basket Management	GET	/baskets	None	{baskets: [{id, items}]}
Basket Management	POST	/baskets	{items: [{productId, quantity}]}	{basket: {id, items}}
Statistics Service	GET	/statistics	None	{statistics: [{metric, value}]}
QR Code Generation	POST	/qr/generate	{data, format}	{qrCode: {id, url}}

Data Schemas

BE Service	Endpoint	Data Schema
User Authentication Service	/auth/login	Users Table: {UserID, Password}
Product Management Service	/products	Products Table: {id, name, price, description}
User Details Service	/users/{id}	User Details Table: {id, name, email, ...}
News Service	/news	News Articles Table: {id, title, content}
Basket Management Service	/baskets	Baskets Table: {id, items: [{productId, quantity}]}
Statistics Service	/statistics	Statistics Table: {metric, value}
QR Code Generation Service	/qr/generate	QR Codes Table: {id, data, format, url}