Calendar Component

CalendarEvent

+	id	String
+	title	String
+	date	String
+	isAllDay	boolean
+	startTime	String
+	endTime	String
+	userId	String
+	recurrence	String
+	repeatUntilDate	String
+	isRecurring(): bool	
+	occursOn(date): bool	
+	generateRecurringDates(): List<String>	

CalendarService

+	addEvent(event): Future<void>
+	updateEvent(event): Future<void>
+	deleteEvent(eventId): Future<void>
+	getEventsForDate(date): Stream<List<CalendarEvent>>

CalendarWidget (Main UI Class)

+	displayDayView(): void
+	displayWeekView(): void
+	displayMonthView(): void

Chore Component

Chore

+	id	String
+	title	String
+	userId	String
+	frequency	String
+	monthsDue	String
+	lastCompletedDate	String
+	dueMonthCarryover	String

ChoreService

+	addChore(chore): Future<void>
+	updateChore(chore): Future<void>
+	deleteChore(chore): Future<void>
+	getChores(): Stream<List<Chore>>

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ChoreWidget (Main UI Class)

+	displayAllChores(): void
+	filterByMonth(month): void
+	toggleView(viewType): void
+	assignChoreToUser(chore, userId): void
+	unassignChore(chore): void
+	handleDrop(chore, targetUser): void

ChoreCard (Reusable UI Widget)

+	render(chore): Widget
+	onDragStart(): void
+	onDragComplete(): void
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Recipe Component

Recipe

+	id	String
+	title	String
+	Ingredients	List<String>

RecipeService

+	addRecipe(recipe): Future<void>
+	updateRecipe(recipe): Future<void>
+	deleteRecipe(recipe): Future<void>
+	getRecipes(): Stream<List<Recipe>>

Date

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RecipeWidget (Main UI Class)

+	displayAllRecipes(): void
+	assignRecipeToDay(recipe, day): void
+	unassigneRecipe(recipe): void
+	handleDrop(recipe, targetDay): void

RecipeCard (Reusable UI Widget)

+	render(recipe): Widget
+	onDragStart(): void
+	onDragComplete(): void
+	addIngredientToGroceryList(ingredient): void

Grocery Component

id	String
title	String
isComplete	bool

GroceryService

+	addGrocery(item): Future<void>
+	updateGrocery(item): Future<void>
+	deleteGrocery(item): Future<void>
+	getGroceries(): Stream<List<Grocery>>

displayAllRecipes(): void
toggleComplete(): bool

Shared

getWeekRange(date): List<DateTime>
getMonthGrid(date): List<List<DateTime>>
formatDisplayTime(event): String

calendarEvents

Field	Type	Key	Relationships
id	String	PK	
title	String		
date	String		
isAllDay	boolean		
startTime	String		
endTime	String		
userId	String	FK	-> users.userId
familyId	String	FK	-> families.familyId
recurrence	String		
repeatUntilDate	String		

recipe

Field	Type	Key	Relationships
id	String	PK	
title	String		
ingredients	List<String>		
familyId	String	FK	-> families.familyId

groceryItem

Field	Type	Key	Relationships
id	String	PK	
title	String		
isComplete	boolean		
familyId	String	FK	-> families.familyId

chore

Field	Type	Key	Relationships
id	String	PK	
title	String		
userId	String	FK	-> users.userId
frequency	String		
monthsDue	String		
lastCompletedDate	String		
dueMonthCarryover	String		
familyId	String	FK	-> families.familyId

users

Field	Type	Key	Relationships
userId	String	PK	
name	String		
uid?	String	FK	-> firestore users
familyId	String	FK	-> families.familyId

families

Field	Type	Key	Relationships
familyId	String	PK	
userId	String	FK	-> users.userId