# MOMENTUM

Empowering Users to Build and Maintain Healthy Habits

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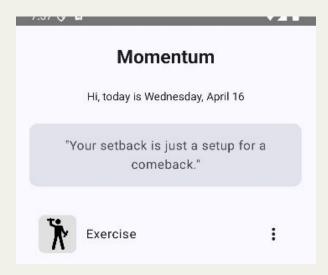


#### Progress & Functionality

- Adaptive layout for landscape and portrait orientations
- Toggleable weekly and monthly calendar views
- Integrated motivational quotes using the ZenQuotes API
- Habit tracking with Room database support
- Users can create new habits
- Semi working watch compatibility

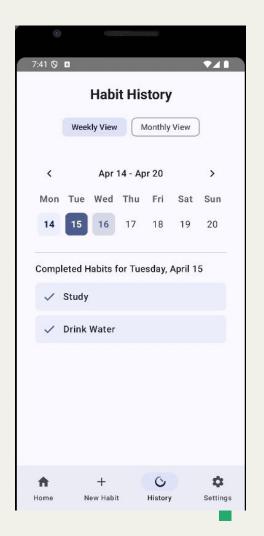
## **API Integration**

☐ Used ZenQuotes API in the home page to share motivational quotes whenever the app is opened



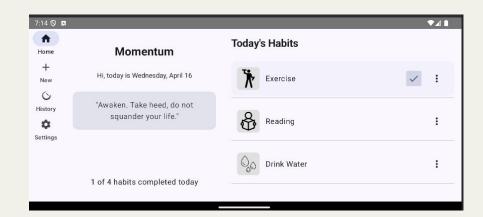
## Weekly & Monthly View

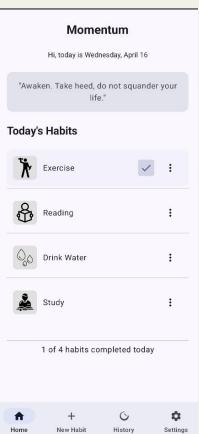
- Displays a weekly/monthly view of the calendar
- → Highlights dates where habits were completed using color indicators
- Shows a list of completed habits for the selected date below the calendar
- ☐ Current timestamp on local device is retrieved using: System.currentTimeMillis()



### Landscape/Portrait Orientation

- Portrait uses vertical layout with bottom navigation
- Landscape uses horizontal layout with side navigation
- □ isLandscape flag controls the layout switch





#### Database

- Room DB Integration
- Table for Habits and Completed Habits

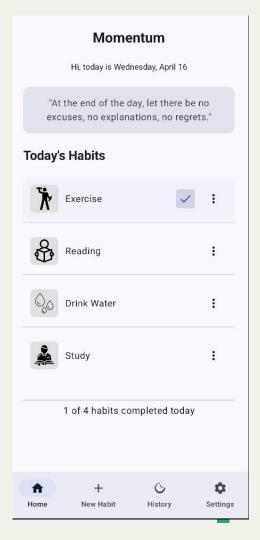
⊞ habit_completions ×  ☐ Live updates  ☐ Updates  ☐ Live updates  ☐ Updates								
	📭 id	habitld	completedDate	completedTime				
1	129	51	1744084800000	1744142613608				
2	130	50	1744084800000	1744142614027				
3	134	52	1744084800000	1744143485689				
4	135	53	1744084800000	1744143486192				

⊞ habits ×										
⊕ Live updates ∠										
	☐ id s	name	iconRes	frequency	reminderTime	createdAt				
1	50	Exercise	2130968584	1	NULL	1744098210281				
2	51	Reading	2130968589	1	NULL	1744098210417				
3	52	Drink Water	2130968592	1	NULL	1744098210703				
4	53	Study	2130968591	1	NULL	1744098211112				

### Multi-Device Support

- □ Phone (Pixel 8)
- WearOS Square Watch (in progress)

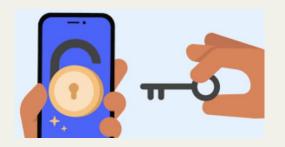




### Potential Future Steps

- Implement user authentication with login and logout support
  - Enables us to map users to their tracked habits

- Integrate step counter visuals and functionality for both watch and phone
- Complete the watch UI and remaining features





#### Documentation

#### Database Schema (RoomDB):

 Planned: associate habits with a unique user ID once user accounts are added in a later sprint

#### APIs Integrated:

- ZenQuotes API provides a motivational quote on app launch (fully implemented)
- Planned: Google Calendar API to enhance the History tab UX

#### Code Organization & Project Structure:

- Separate modules for Pixel (phone) and Wear OS (watch), cleanly linked via Gradle

#### Challenges:

- Balancing minimal UI with functionality across landscape and watch views

### Demo Time!