Test Case Planning

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1. Use Case 2 - *View Weekly Mood Trend*

Test Case ID	Typical Weekly Trend (exactly 7 daily entries)
Test Objective	System returns a 7-element trend for the past 7 days with correct values and order (oldest → newest).
Preconditions	User is logged in; database contains exactly one mood entry per day for days D−6..D (today = D).
Test steps	1. Navigate to "View Weekly Trend" 2. Request trend.
Input Values	N/A (uses stored data)
Expected results	- Trend array length = 7. - Values match stored entries for each day D−6..D. - Rendered summary states "Showing last 7 days".

Test Case ID	Partial Data (fewer than 7 entries)
Test Objective	System returns a 7-slot trend with gaps handled (e.g., None), and a user-facing message prompting more logs.
Preconditions	User is logged in; database has entries for only 3 of the last 7 days.
Test steps	1. Navigate to "View Weekly Trend". 2. Request trend.
Input Values	N/A
Expected results	- Trend array length = 7. - Slots for missing days are None. - Message: "Partial trend – log more days to complete your weekly trend."

Test Case ID	Ignore Out-of-Range Data (older than 7 days)

Test Objective	Entries older than 7 days are excluded from the weekly trend.
Preconditions	- User is logged in - there are multiple entries but only some are within the last 7 days - at least one entry is exactly 7 days before today (D−7) and must be excluded.
Test steps	1. Navigate to "View Weekly Trend". 2. Request trend.
Input Values	N/A
Expected results	- Trend contains only entries from D−6..D. - Any entry at D−7 or earlier is not present.

Test Case ID	Empty Dataset (no entries)
Test Objective	Graceful handling when no entries exist.
Preconditions	- User is logged in - user has 0 mood logs for the last 7 days
Test steps	1. Navigate to "View Weekly Trend". 2. Request trend.
Input Values	N/A
Expected results	- Trend array length = 7 with all None. - Message: "No data for the last 7 days."