

Task Design Report: Scenario-Based Template Generation

Sprint: 1

User Story 24: Develop Prompt Templates

Task 26: Create templates for common scenarios

Description: Design and Define Automation Templates (Meeting, Personal, Travel)

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1. Objective

The purpose of this task is to define standardized automation templates for three high-frequency user scenarios: Meetings, Personal Time, and Travel.

These templates are grounded in empirical analysis of user activity data, which identified specific correlations between device states (location, calendar events, app usage) and user availability. The goal is to maximize the relevance of auto-responses while minimizing user intervention.

2. Data Analysis

2.1 The "Meeting" Correlation

- Observation: Analysis of 202 recorded calendar events showed a correlation with the device being in "Silent" or "Vibrate" mode.
- Implication: Calendar events are a deterministic trigger for unavailability.
- Design Decision: The "Meeting" template should automatically enforce silent/vibrate modes and trigger professional auto-responses without requiring manual confirmation.

2.2 The "Personal Time" Context

- Observation: Most of the entertainment app usage (YouTube, Audible, Duolingo) occurred while the device location was logged as "Home" during non-working hours.
- Implication: "Home" location combined with specific app usage effectively signals a "Personal Time" state where professional interruptions should be minimized.
- Design Decision: The "Personal Time" template will utilize a geo-fence ("Home") and time-of-day logic to adjust notification permeability.

2.3 The "Travel" Safety Requirement

- Observation: The dataset contains distinct `in_vehicle` activity tags, though map usage was intermittent (12.5%).
- Implication: Safety takes precedence over precision. Any detection of vehicle activity should trigger a high-restriction state.
- Design Decision: The "Travel" template prioritizes safety features (Driving Mode) over response nuance.

3. Template Definitions

The following three templates constitute the standard automation set:

3.1 Template A: "Meeting" (Professional)

- Trigger Logic:
 - `IF Calendar_Event == True`
 - `OR App_Active IN ["Zoom", "Skype", "Teams"]`
- System Instructions:
 - "You are an auto-response assistant. The user is currently in a meeting. Respond politely to acknowledge receipt but state clearly that the user cannot reply until the meeting concludes."
- Contextual Elements:
 - Current Activity: "In a meeting"

3.2 Template B: "Personal Time" (Relaxation)

- Trigger Logic:
 - `IF Location_Type == "Home"`
 - `AND Time > 18:00 (6 PM) OR Day IN [Sat, Sun]`
- System Instructions:
 - "The user is currently on personal time. Maintain a casual but firm boundary. Do not promise an immediate response unless the message is marked 'Urgent'."
- Contextual Elements:
 - Current Activity: "Personal time"
 - Response Expectation: "Morning" or "Monday"

3.3 Template C: "Travel" (Safety)

- Trigger Logic:
 - `IF Activity_Type == "in_vehicle"`
 - `OR App_Active IN ["Google Maps", "Waze"]`
- System Instructions:
 - "The user is currently driving. Keep the response extremely brief. State that they are in transit and will respond upon arrival."
- Contextual Elements:
 - Current Activity: "Driving"