Product Requirements Document (PRD)

Project Overview

Name (working title): History Reminder

Goal: Help students preparing for history/geography exams memorize important dates and events using random popup notifications on their device screen (even when the app is closed).

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© Objectives

- Make memorization of events/dates passive and continuous
- Offer structured predefined lists of events
- Allow users to customize their own lists
- Deliver random popups on screen to remind them of events



Target Users

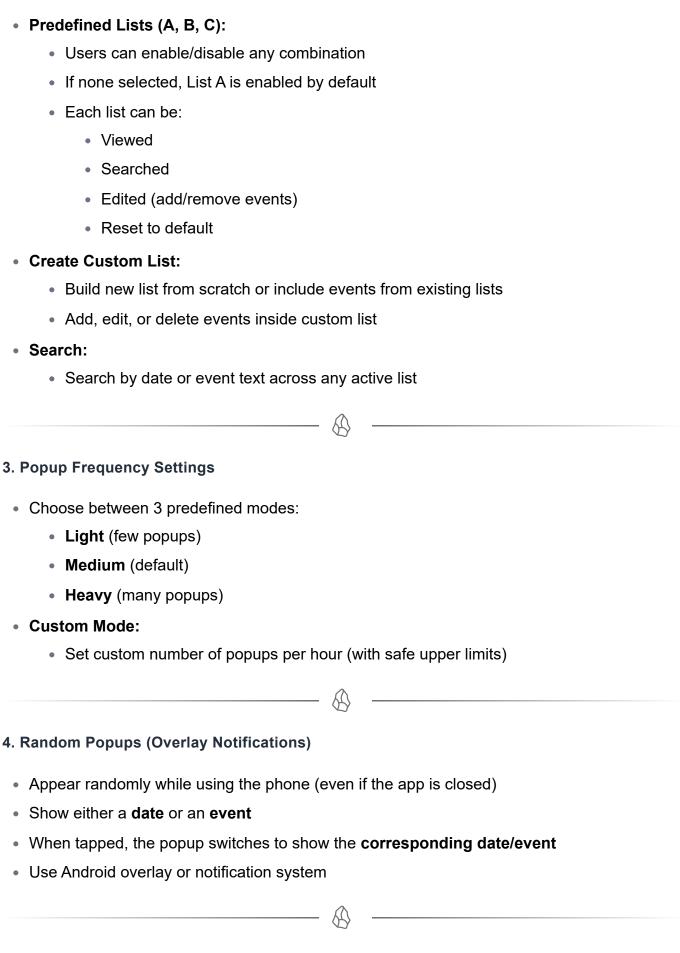
- High school students (especially BAC candidates)
- · Anyone who wants to memorize historical dates easily



■ Core Features (MVP)

- 1. Home Screen
 - Two main buttons:
 - Event & Date Management
 - Popup Frequency Settings





- Store events and settings locally on device
- Predefined lists stored in local database (readable + resettable)
- Use Hive or sqflite for data storage
- Use flutter_local_notifications or overlay_window for popups



Architecture Overview

- UI Layer: HomeScreen → EventManagement → ListView/Add/Edit → PopupSettings
- Logic Layer:
 - EventListManager (enable/reset lists)
 - RandomEventService (pick random events)
 - OverlayService (display popup)
 - BackgroundService (periodic triggers)
 - SettingsService (save user preferences)
- Data Models:
 - Event (title, date)
 - EventList (name, enabled, events)
 - Settings (frequencyLevel, customPerHour)



Testing Plan

- Unit test for:
 - Adding/editing/deleting events
 - Random selection logic
 - Frequency limits
- Integration test for:
 - Background service triggering popups
 - Popup tap showing the paired item
- Manual testing on Android device



- Home screen widget (shows random event on home screen)
- Cloud sync of custom lists
- User accounts / backups
- Add "word–translation" mode for language learning