

# Smart Napper App

## Application Details

Smart Napper is a mobile application that helps users schedule short naps efficiently.

It sets nap durations, triggers wake-up alerts, and logs nap history using Firebase.

Key features include:

- Customizable nap durations
- Wake-up alarm with notification
- Nap history tracking
- Multi-language support

## Work Flow

1. User selects a nap duration.
2. The app schedules an alarm and stores the wake-up time.
3. When the timer ends, an alarm sound is played.
4. The wake-up notification appears, prompting the user to stop the alarm.
5. Nap details are stored in Firebase for history tracking.

## Concepts Used

- Flutter: For UI and state management
- Firebase Firestore: For nap history storage
- Shared Preferences: To save wake-up time locally
- Flutter Local Notifications: To schedule notifications
- Audioplayers: To play alarm sounds
- Timezone Package: To handle accurate scheduling