

Gesture Path

A Gesture-Controlled Smart Navigation System for
experiencing route preview

Introduction

- Gesture Path: Visual path guidance using Google Street View
- Intuitive gesture control for exploring and remembering routes
- Designed for smart kiosks to aid users with better route understanding



Experience the journey
before the journey

Find cues
for your path

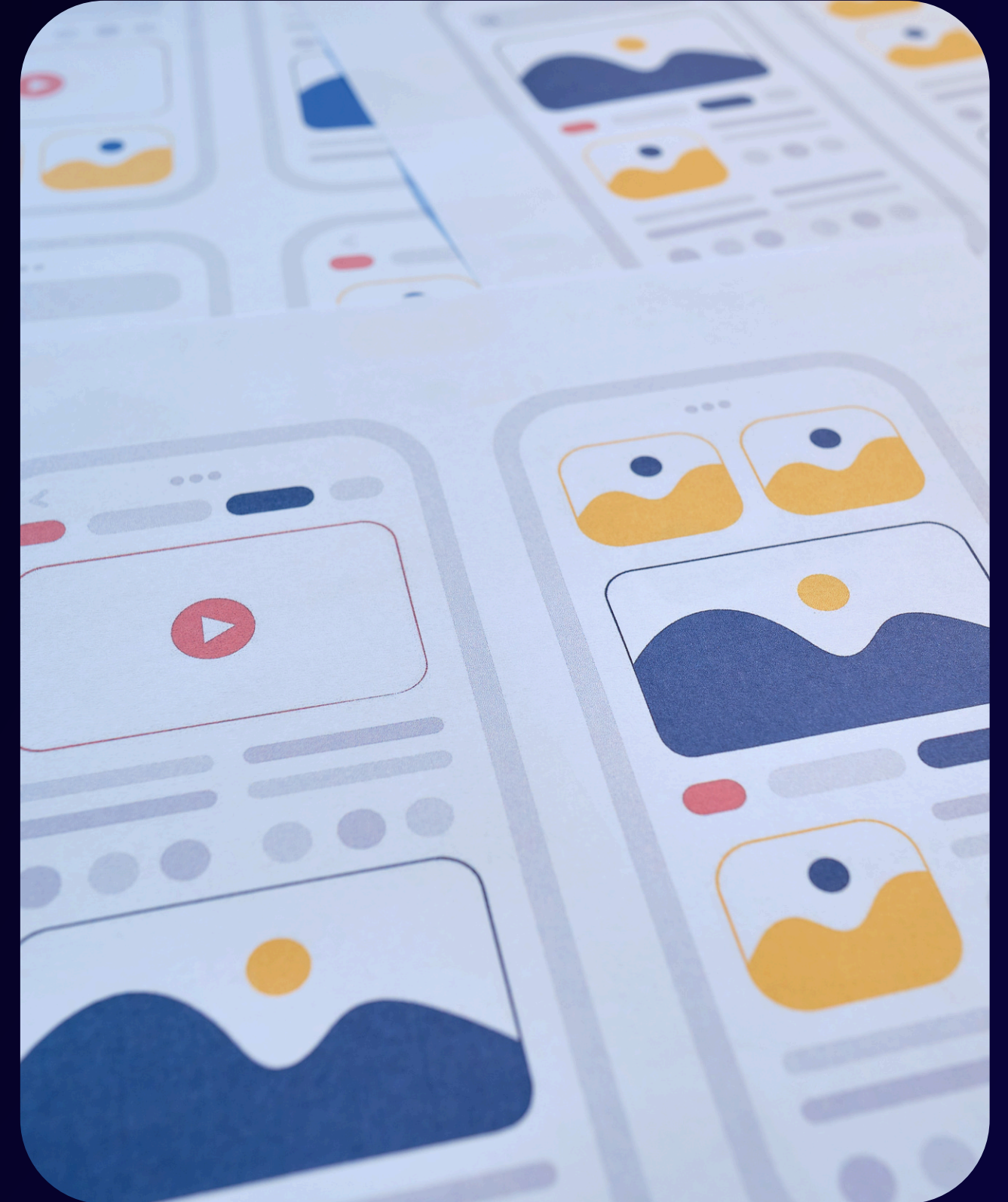


Motivation

- Personal Story: Lost on campus on the first day
- Maps felt confusing and hard to follow visually
- Idea: Provide a better tool to visually preview and remember routes

Methodology

- Gesture recognition using OpenCV and Mediapipe
- Real-time hand gesture tracking for navigation controls
- UI: Designed for clarity and ease of use
 - Controls explained directly on-screen
 - Real-time feedback on recognized gestures



Future Work

- Add QR code for users to download the visual route to their phones
- Expand gesture library for more intuitive control options
- Optimize system responsiveness for various user environments



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Thank You