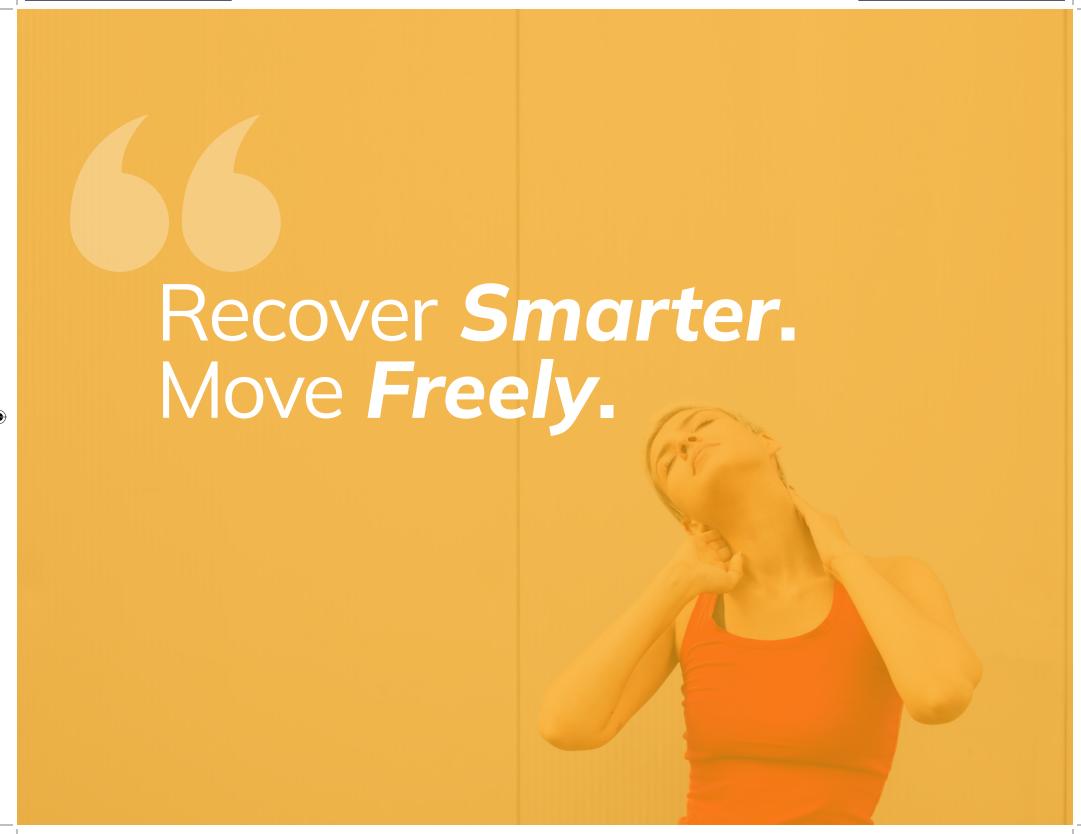




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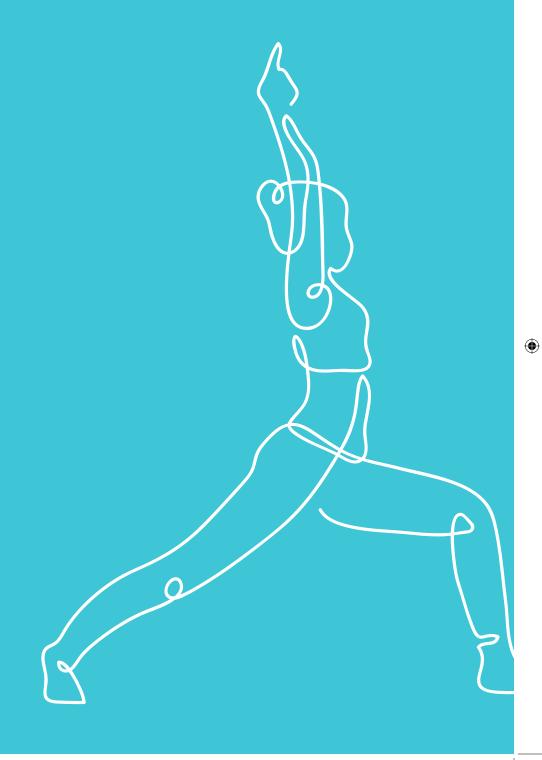
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Project Overview



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Problem

Many people experience recurring conditioning injuries like: Shoulder stiffness, Neck pain, Lower back strain etc. These issues often arise from poor posture, muscle imbalances, or improper form during workouts or daily activity. To recover and prevent flare-ups, they're told to do regular rehab or mobility exercises.

- Many can't afford regular therapy sessions
- At-home exercises are often done incorrectly
- No real-time feedback or correction
- Self-recovery without guidance is risky
- Minor issues can turn into long-term problems



Solution

Kyntra is a mobile app designed for non-emergency injuries, providing individuals with real-time exercise feedback.

- Using the phone's camera to track movements
- Detects incorrect posture or form in real-time
- Provides instant feedback visually on screen or through voice.

More Than Just Rehab:

Provides a guided video library, Al analysis, and suggestions for nearby therapists to support safe and effective home recovery. Kyntra ensures users recover correctly, confidently, and consistently even without frequent clinic visits.





Features

Conditioning Program Assist

Uses your phone's camera to guide rehab with real-time corrections for safe, effective healing.



A simple video library for all fitness levels to stay active, flexible, and stress-free



Clinics & Al Support

Find nearby physio clinics fast and get 24/7 support from an Al assistant for rehab tips and guidance



Features	Kyntra	PhylApp	Reflex	BackEasy
Real-time camera tracking	✓	×	posture only	×
Live feedback during exercise	✓	×	×	×
Guided video library	✓	✓	✓	✓
Al chat support	✓	×	×	×
Clinic locator	✓	*	×	×

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PhyApp

URL: No public website listed) | App Store: iOS

What They Do Well:

Provides physiotherapist prescribed exercise programs

Includes video instructions and progress tracking

What We Do Better:

Unlike PhylApp, Kyntra doesn't require a therapist to prescribe exercises. It offers real-time camera tracking and instant feedback, making it more accessible and effective for users recovering independently at home.



Reflex

URL: https://reflexhealth.co | App Store: iOS

What They Do Well:

Strong focus on posture tracking for shoulder injuries

Camera-based posture analysis and history tracking

Large video library and additional features like sleep and pain tracking

What We Do Better:

While Reflex analyzes posture, it doesn't actively guide users during exercise. Kyntra provides real-time form correction with voice and visual cues, covering full rehab guidance rather than just posture tracking.



BackEasy

URL: (No public website listed) | App Store: iOS

What They Do Well:

Offers educational content and exercise videos for back pain relief

Simple, informative approach for pain management

What We Do Better:

BackEasy is static and educational, while Kyntra is interactive tracking motion, providing real-time feedback like a virtual therapist, and expanding into general fitness with AI chat support for a broader recovery experience.

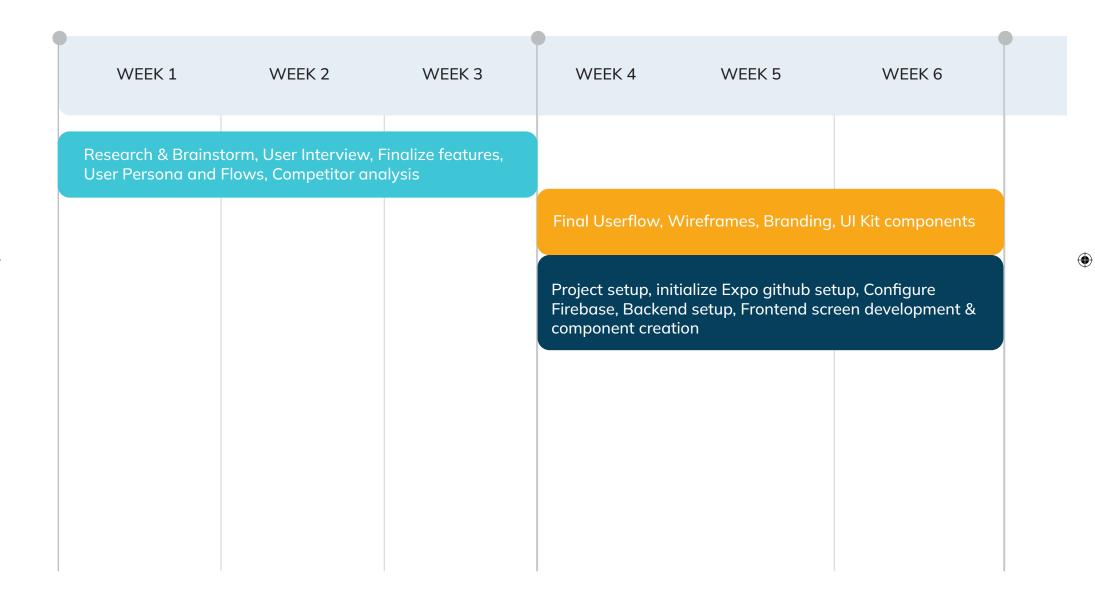
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Project Timeline



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WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12
Rough Mockup screens, Final mockup screens, Landing page Marketing material planning Design and developed api's and backend logics, Integrated Gemini AI for smart chat and navigation		Landing page dev			
		marketing materials, presentation slides			
fixes, Alpha build demo and alpha bug bash		UI/UX refinement & testing, BetaDemo and collect user feedback, and iterate on improvements, code freeze			

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Technical Overview





Frontend

React Native with Expo & Dev Client

Enables fast, cross-platform mobile development.

Expo simplifies setup and testing, while the Dev Client supports advanced native modules like react-native-vision-camera for real-time ML-based pose detection.

TypeScript

Adds static typing for improved error detection, maintainability, and tooling support.

ML Libraries

Integrated lightweight, on-device models for real-time posture detection and intelligent feedback.

Backend

Node.js & Express.js

Provides a fast, scalable, and lightweight environment for building RESTful APIs.

Implements MVC architecture for clear separation of concerns and maintainability.

AWS (EC2)

Hosts the backend with high scalability, availability, and security.

Apache

Configured as a reverse proxy to route client requests to the backend server efficiently and securely.



Media Storage

Cloudinary

Hosts pre-recorded physiotherapy exercise videos.

Provides fast, optimized, and secure video delivery via CDN-powered URLs.

Database

Firebase Firestore

A real-time NoSQL database that syncs data instantly across devices.

Integrates seamlessly with Firebase Auth and supports secure client read/write

Third-Party APIs

Google Maps – For locating nearby physiotherapists.

PowerDB API – For retrieving exercise change data.

Gemini Al (Google) – For smart chat features and intelligent recommendations.

Authentication

Firebase Authentication

Provides secure login, JWT token generation, and simplified user management.

Authentication & Security

JWT (JSON Web Token)

Ensures secure transmission of user data between frontend and backend.

Restricts access to protected resources for authenticated users only.



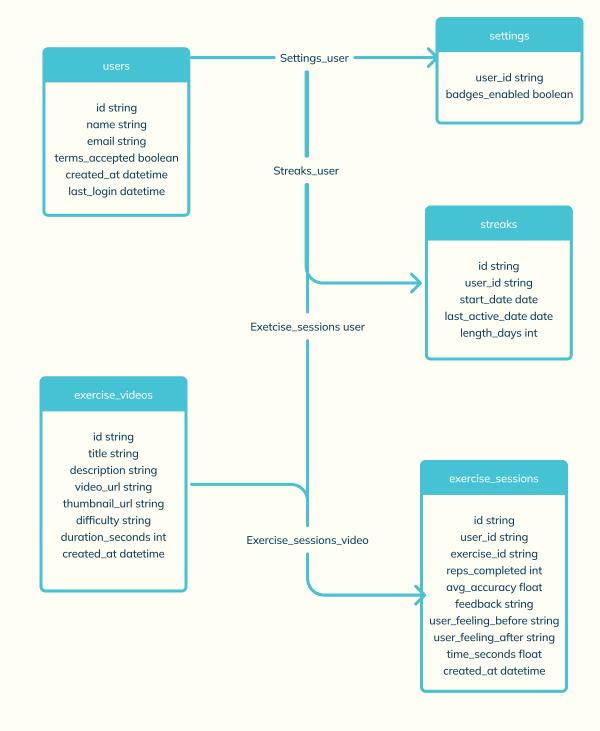
Data Model

ai chat messaaes

Message(string) sent_at session_id

clinics

id string
name string
address string
phone string
email string
created_at datetime
updated_at datetime





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Tech Stack

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Third Party API



Authentication



Database







Project Proposal- Kyntra

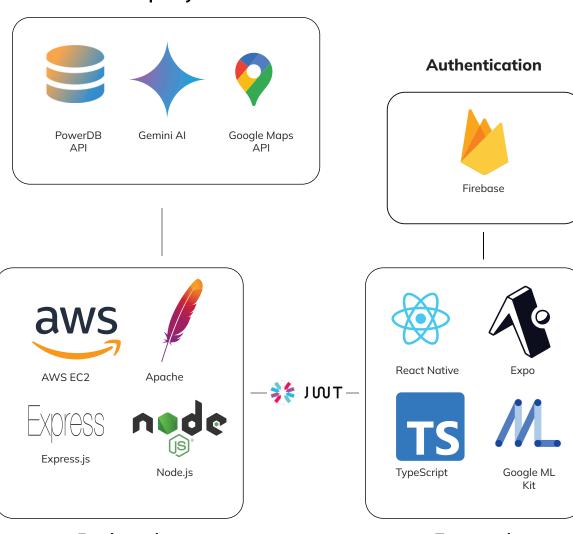


Back end

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System Architecture Diagram

Third-party APIs



Database

Firestore

Cloudinary

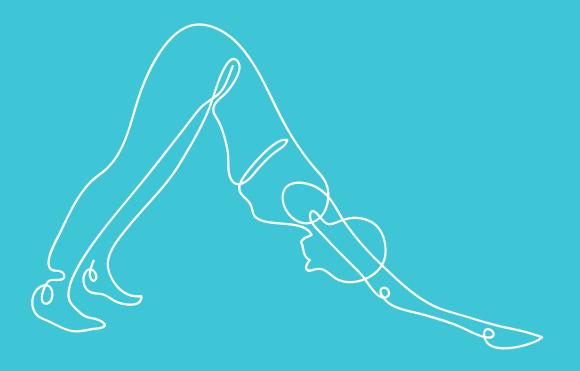
Back-end

Frontend



Design Process

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Design Tools













Project Management









We use Figma for collaborative UI/UX design, including user flows, wireframes, and high-fidelity mockups. Adobe Illustrator is used for creating vector-based logos, icons, and illustrations, while Photoshop handles image editing. InDesign is used for project proposals, and for motion and video tasks, we use After Effects for animations and Premiere Pro for video editing



Persona 1



I've recovered, but I don't want this pain coming back again

Name: Pavan Pothamshetty

Age: 36

Occupation: Graphic designer

Hobbies: Playing Cricket

Lifestyle: Active, work long hours Tech Familiarity: Moderate to high

Source: In person Interview

Background

Pavan is a 36 year-old graphic designer and a passionate cricket player. A few months ago, he experienced a shoulder impingement from poor posture and overuse. After completing a round of physiotherapy, he regained mobility but his therapist warned that without proper maintenance, the issue could return.

Pain point

- Generic fitness apps don't account for on specific recovery areas
- Afraid of doing exercises that might trigger the pain again
- Doesn't always know if he's doing it right
- Finds it hard to build a long-term routine

Goal

- Prevent re-injury through regular conditioning
- Maintain shoulder mobility and posture
- Get reminders and feedback to stay consistent







Persona 2



"Wants to ease stiffness safely"

Name: Alexa Marques

Age: 50

Occupation: Homemakeı

Hobbies: Cooking, Gardening

Lifestyle: Calm, home-based, short

walks

Tech Familiarity: Low-moderate

Source: Virtual Interview

Background

Alexa experiences age-related neck and shoulder stiffness. She wants to stay active but is hesitant to do exercises alone for fear of doing them wrong and worsening her condition. Traveling to clinics is tiring and costly. She prefers doing light stretches at home, but needs assurance she's doing them correctly.

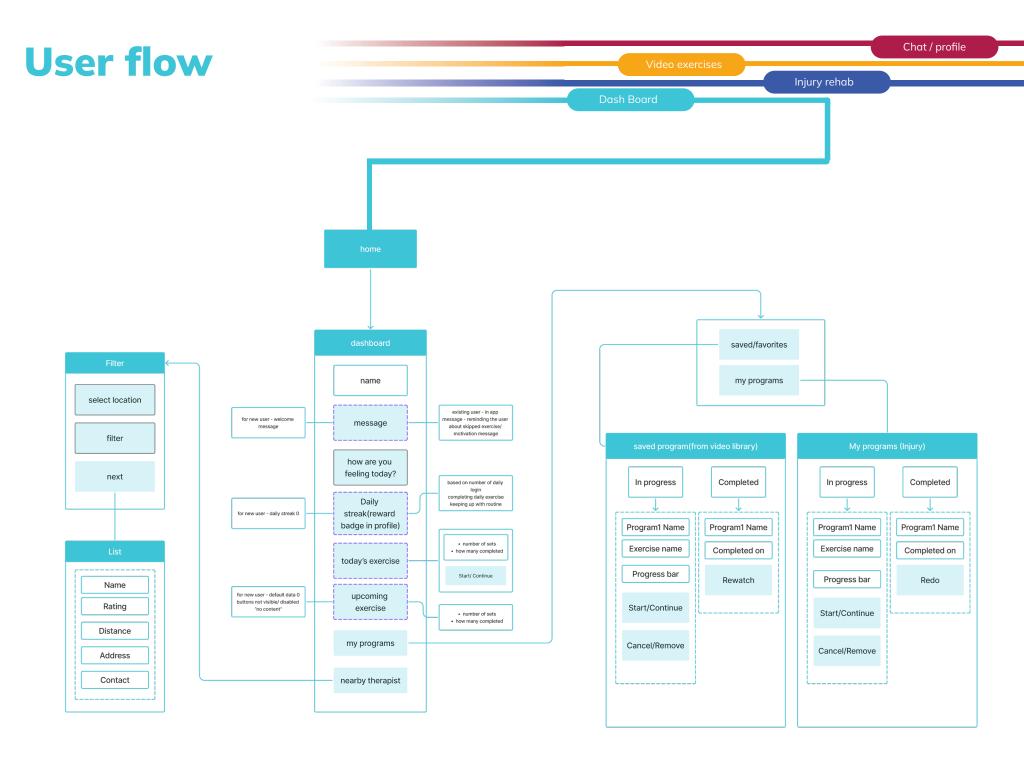
Pain point

- Worried about doing the wrong move and hurting herself
- No physiotherapist nearby
- Gets overwhelmed by long YouTube tutorials
- Needs simple instructions

Goal

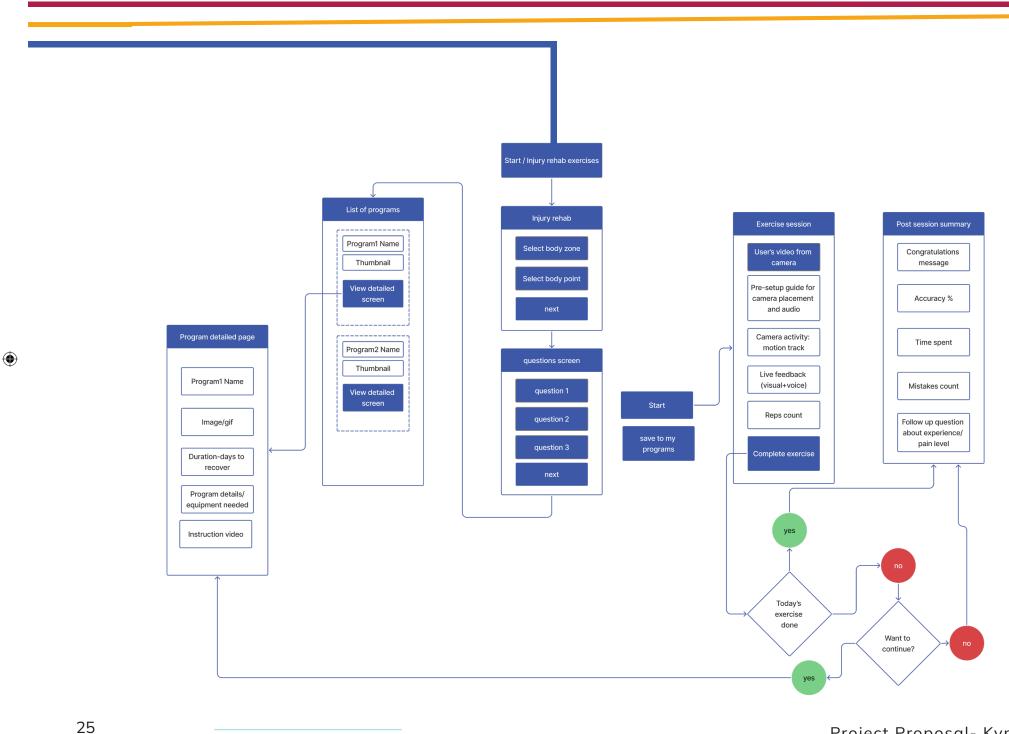
- Stay mobile and independent
- Follow gentle routines safely
- Get spoken, step-by-step guidance
- Track her daily progress with simple visuals





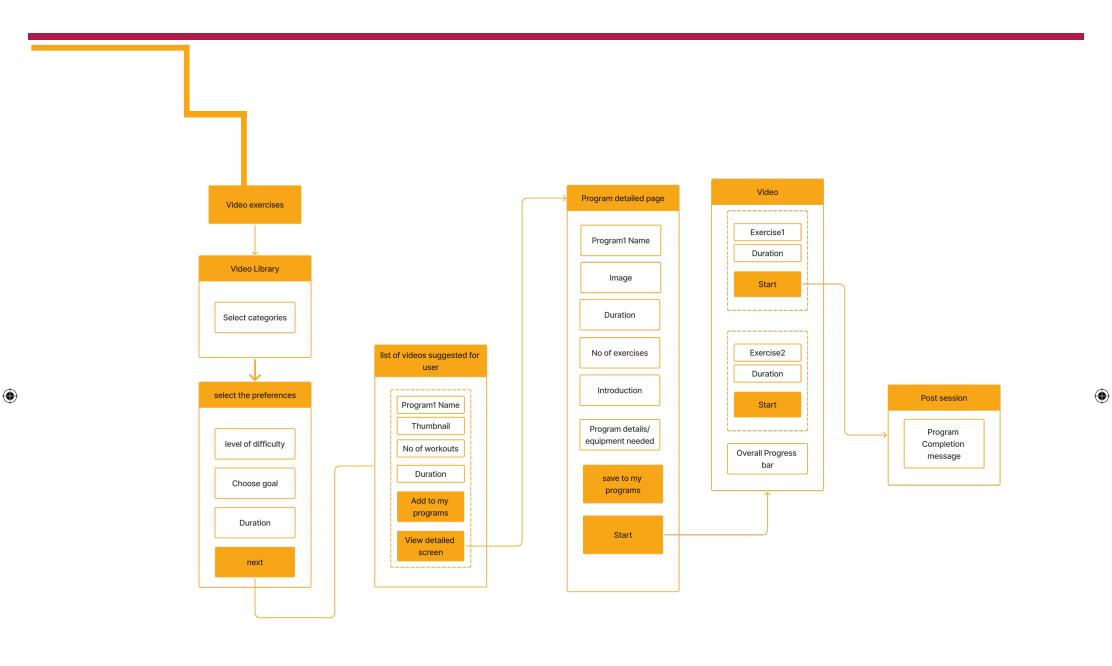
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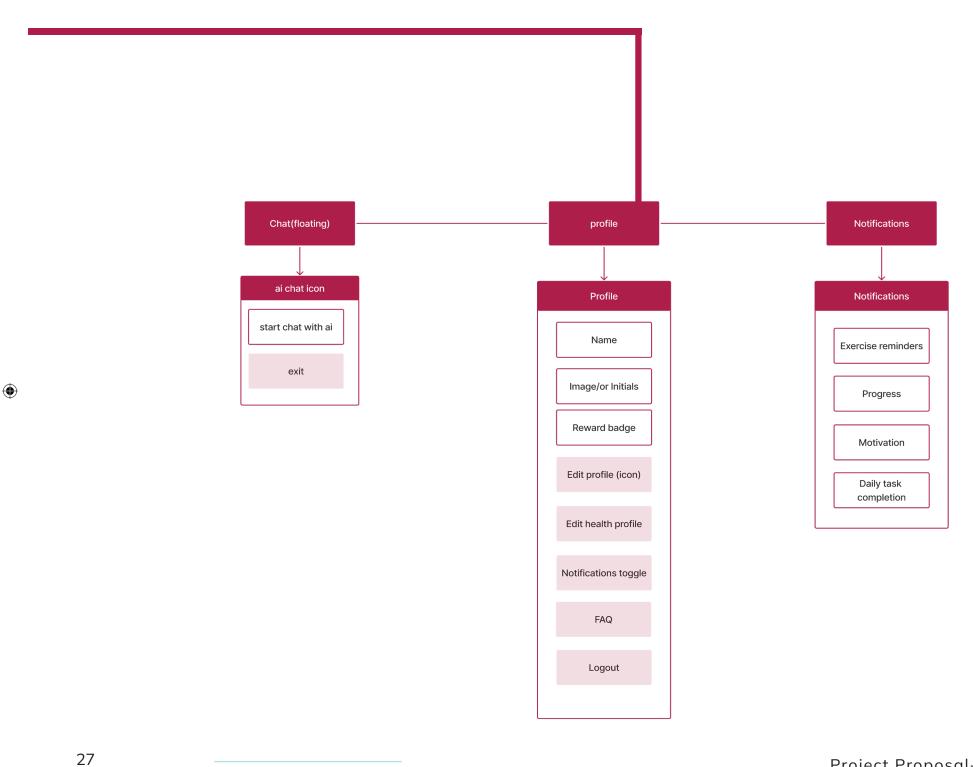


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Branding

The Kyntra logo is designed to reflect movement, healing, and connection—core ideas behind what the platform stands for. The most distinctive part of the logo is the "K," which is shaped like a person in a stretching or side-lunge pose. This design choice wasn't just for style; it visually communicates that Kyntra is about physical recovery, movement therapy, and wellness. It gives the logo a human touch and creates an immediate association with exercise and body movement.





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Logo Usage

Exclusion zone

The Logo and the icon's exclusion zone is equal to half the height of the icon (marked as x in the diagram



Minimum size

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To ensure the logo remains clear, readable, and recognizable across all platforms, a minimum size is defined.



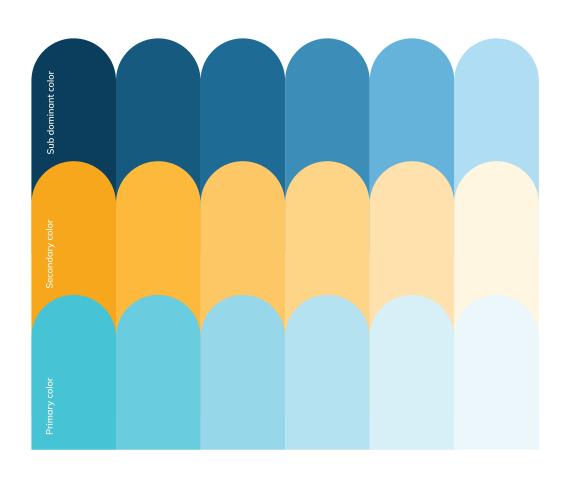
Kyntra logo should never be smaller than 100px in mobile and 25mm in print



Kyntra Icon should never be smalleı than 24px in mobile

Color Palette

Brand colors



Accent Colors



Turquoise Blue - It represents calm, clarity, and hope feelings that are important when someone is recovering from an injury

Amber - Brings energy and positivity to the mix. It adds warmth and motivation, much like a supportive coach.

Midnight Blue - Gives the brand a sense of seriousness and confidence, which is important in any health-related service.

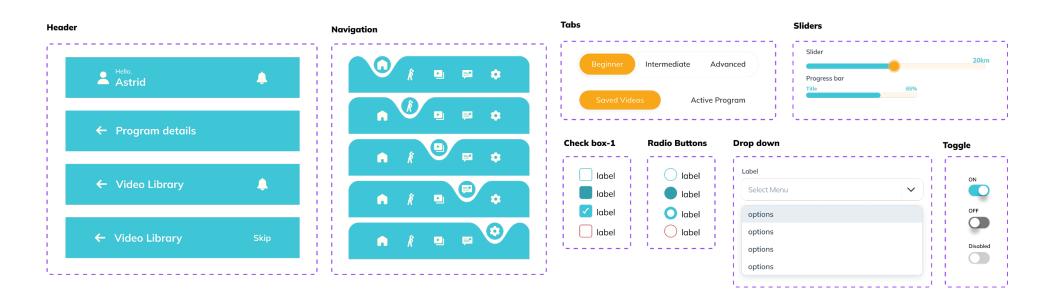


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Primary- buttons Secondary - buttons Secondary - buttons Button Button Default Button But

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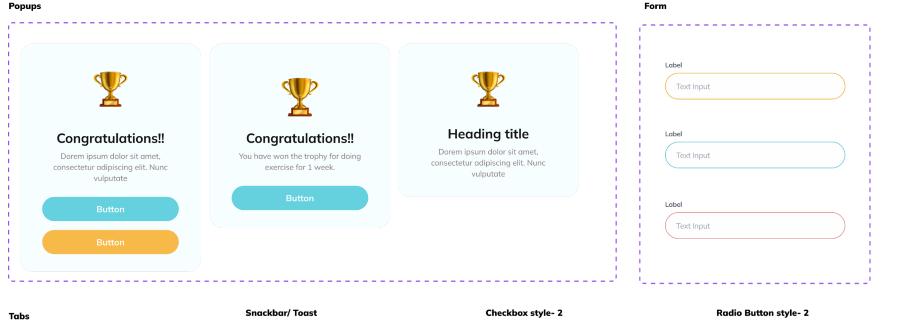






Project Proposal- Kyntra





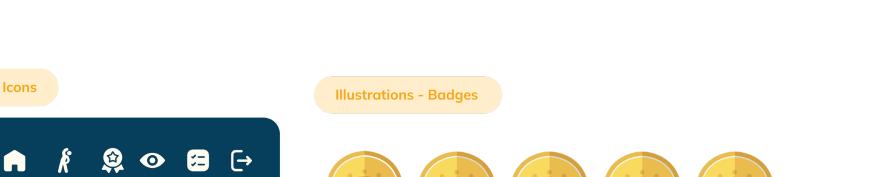


UI Kit Graphics

Project Proposal- Kyntra

Graphics in the UI kit were developed to maintain a consistent and cohesive visual identity throughout the application.

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Badges & Onboarding Illustrations

The badges were designed to encourage user engagement by celebrating progress, while the onboarding illustrations create a welcoming and approachable first-time experience.



Typography



Mulish

Characters

ABCDEFGHIJKLMNO
PQRSTUVWXYZabc
defghijklmnopqrstu
vwxyz
01234567890!@#\$
%^&*()_+=-/?<>|\
~`{}[]

Regular
Medium
Semibold
Bold



Mulish

San serif

Heading Style

Heading 1

Heading 1, Mulish, Bold, 36px

Heading 2

Heading 2, Mulish, Bold, 24px

Heading 3

Heading 3, Mulish, Bold, 20px

Heading 4

Heading 4, Mulish, Bold, 18px

Titles

Title, Mulish, Bold, 16px

Body Style

Body Text 1

Body text 1, Mulish, Regular, 14px, line height 20

Body Text 2

Body Text 2, Mulish, Semibold, 14px, line height 20

Button Style

Button 1

Button text 1, Mulish, Regular, 16px

Button 2

Button Text 2, Mulish, Semibold, 14px

Tabs

Tabs Text, Mulish, Semibold, 14px

Caption Style

Caption 1

Caption text 1, Mulish, Medium, 12px

Caption 1.1

Caption text 1.1, Mulish, Bold, 12px

Caption 2

Caption Text 2, Mulish, Medium, 10px

Caption2.2

Caption Text 2.2, Mulish, Bold, 10px

Warning, Message

Warning Message, Mulish, Medium, 12px

Labels Style

Label

Label text 1, Mulish, Semibold, 12px, line height 18

Placeholder

Placeholder text 1, Mulish, Regular, 14px, line height 17

Text Input

Text Input, Mulish, Medium, 14px, line height 17

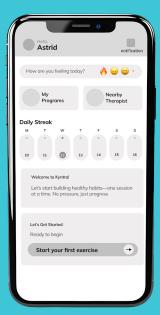




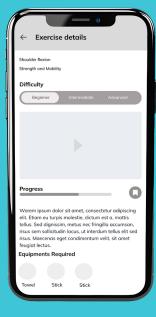


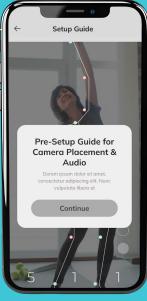


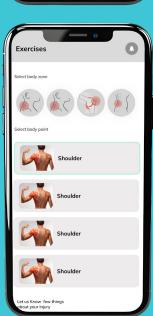
Wireframes

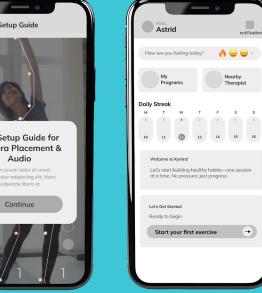


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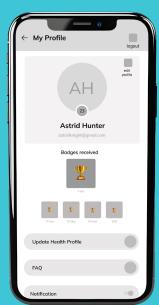


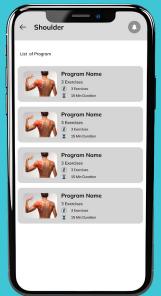














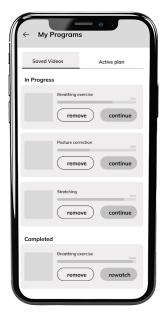




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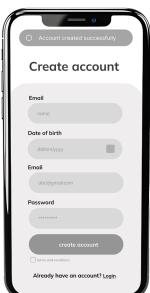










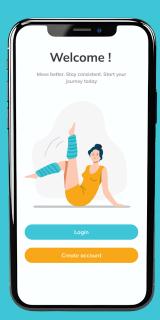


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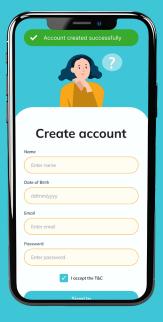


Mockups

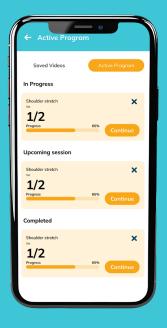
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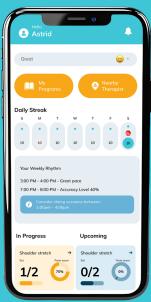


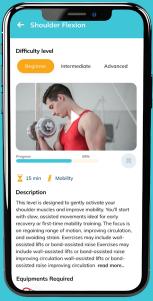




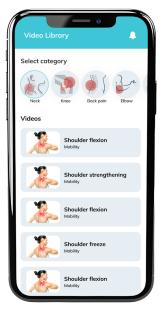




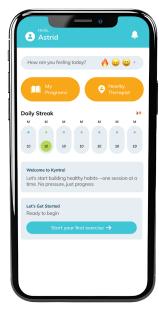








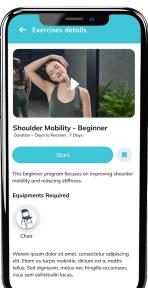
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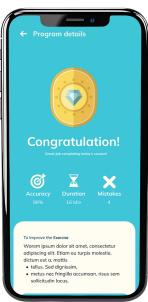


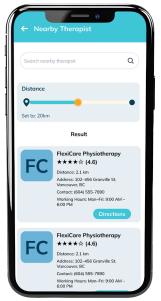














Business Model

Kyntra Solo
✓ Real-time motion tracking
✓ Access to exercise video library
✓ Daily check-ins & progress tracking
✓ Nearby therapist locator
X No observer/monitor access

Kyntra Support \$15/mo
Includes everything in Free plus
✓ All features in Kyntra Solo
✓ Add 1 observer (family, friend, caregiver)
✓ Observer can:

View daily progress
Get alerts for missed sessions
Receive weekly summary reports

Premium



Meet The Team



Souray Shetty Full Stack Developer

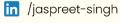
in /sourav-s-shetty



Venkatesh Full Stack Developer in /venkatesh-pothamsetty



JASPREET SINGH Full Stack Developer





Surbhi Nayyar





Mashiur Rahman UI/UX Designer





Adila Nazar UI/UX Designer





Kartik Bhanderi UI/UX Designer

in /kartik-bhanderi



Tomohiro Yamamoto

UI/UX Designer

in /tomohiro-yamamoto



Dhawal Kumar UI/UX Designer

in /dhaval-paghadal

How We Brought Kyntra to Life

We combined our expertise in UI/UX design, software development, and user research to bring Kyntra from concept to reality. Through user interviews, detailed personas, and carefully mapped user flows, we ensured the solution addressed real needs. By integrating real-time feedback systems with AI and following a collaborative design and development process, we created a fully realized, user-centered application.









Designed with Expert Inputs

Kyntra offers a unique solution for home exercise programs by using advanced tracking features to monitor patient performance. It provides feedback when exercises are performed incorrectly, addressing one of the biggest challenges in home exercise prescription for physiotherapists

Gillian Corbo | Physiotherapist, MPT, MSc, BKin

Instructor

Department of Kinesiology

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Acknowledgement

To all our faculty and instructors, Thank you for inspiring us, guiding us, and believing in us. Your hard work and dedication have made this journey possible, and we are truly grateful

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Jason Madar

Tomoko Okochi

Kevin Mc Millan

Tyler Higgs

Reza Etemadi

Josué Menjivar

Reza Abbasi

Jeffrey Ellis

Richard Wond

Lu Yu

Paul Brassard

Ira Zhanc

Denis Billette

Marinela Poso

lacob Tran

Sebastian Ariza

Amandeep Singh

Valentina Abanina

Binazir Farokhi

kyntra.wmdd.ca





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