



1.A: Music Player

- Create your own app to reproduce audio files
- Create playlists and share them with your friends
- Control music with your smartwatch





1.B: Theremin App

- Play a theremin-like instrument:

Control the pitch and volume of the sound with your hands



- Two watches register the movement
- The smartphone translates the signals into sound
- Record your melodies



1.C: Synthesizer App

- Create your own sounds and play melodies with them
- Your smartwatch also contributes to the sound configuration!



- Record your melodies
- Sample sounds

2.A: Fitness Drone

- Transform your drone into a fitness companion for outdoor activities.
- Follows your movements autonomously.
- Captures photos and videos of your workout.



2.B: Dronie

- Capture stunning aerial selfies with a drone that autonomously adjusts for the perfect shot.
- Customize settings and view live feeds to ensure the best angles.
- Share dronies with your friends.





2.C: Drone Surveyor

- Define an area on a map
- The drone follows an auto-planned path for photo reconnaissance
- After landing, the app imports the images and stitches them into a single high-resolution mosaic.



3.A: The gARden 🌱

- Design your own virtual gARden
- Take care of your plants
- Visit you friends' gardens
- Make the best garden and earn points!





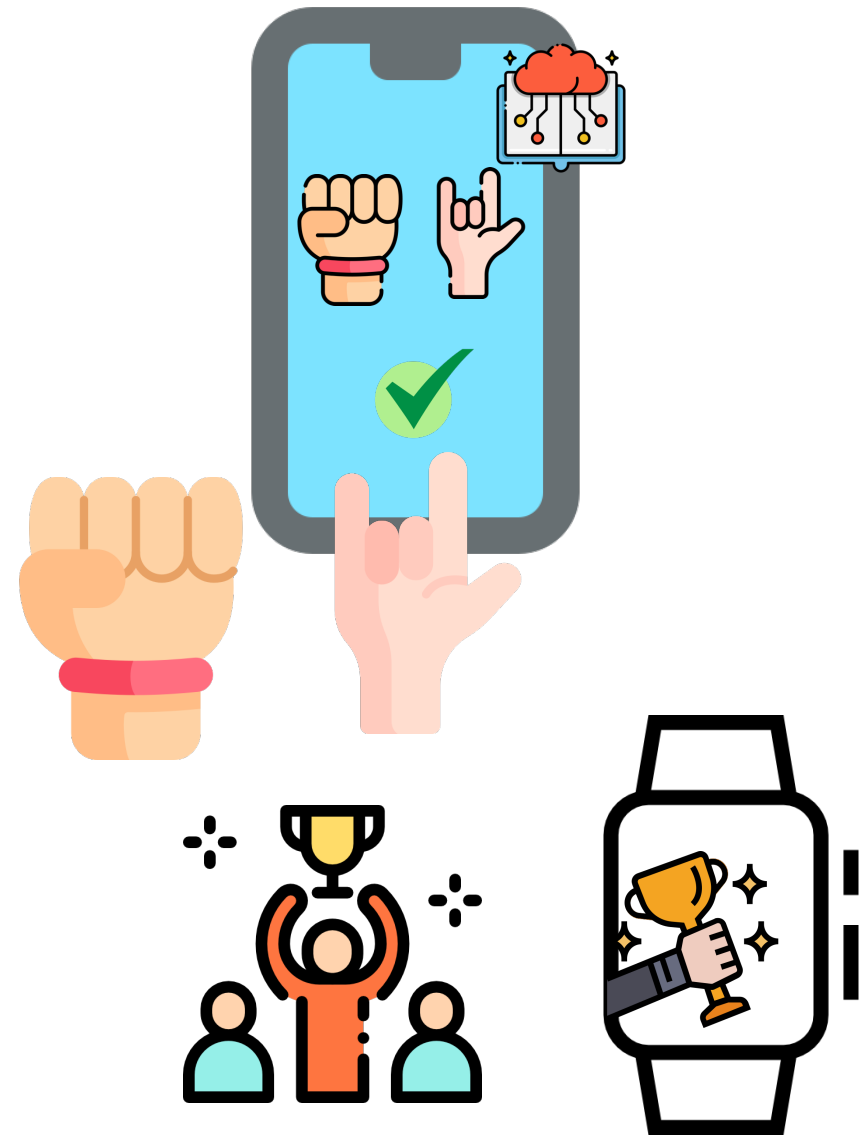
3.B: Virtual Pets 🐕 🐈

- Take care of your virtual dog/cat
- Go on walks with them!
- Get them to socialise with your friend's virtual pets



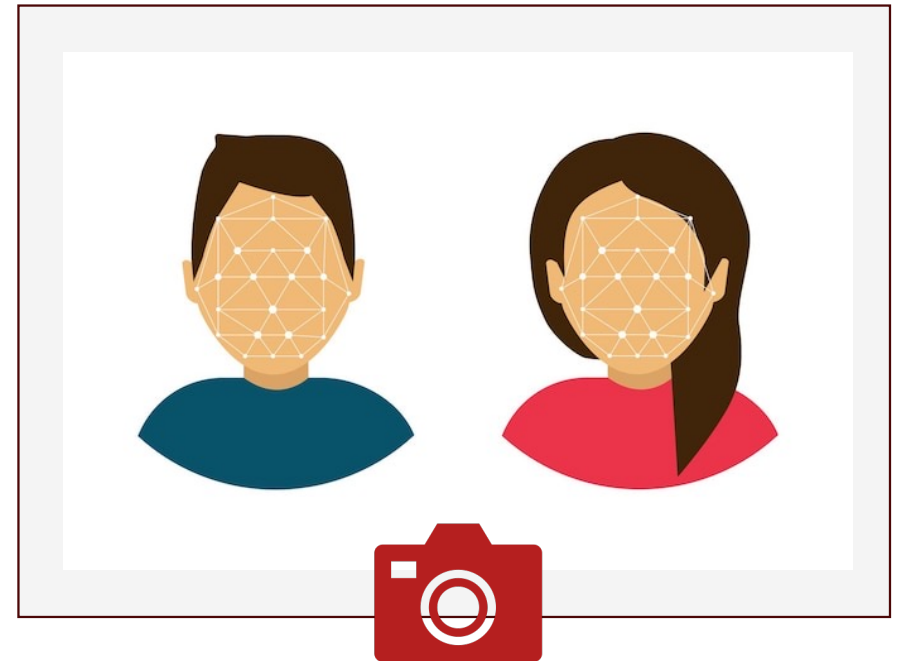
4.A: Gesture Genius

- **Memorize & Mimic:**
Use your phone to see gestures and your smartwatch for timing.
- **Deep Learning:**
Smartwatch shows real-time feedback based on gesture accuracy.
- **Visual & Vibration Cues:**
Countdowns and alerts on the smartwatch guide you.



4.B: EmoVerse

- **Face detection :**
Detect facial expressions in real time (e.g., Happy, Neutral, Surprised).
- **Customized avatar:**
Live avatar to match the user's state.
- **Snapshot for moment:**
Capture, save and share with friends snapshots of interesting or memorable moments/expressions.





5.A: Red Light/Green Light

- Develop an automated Green Light/Red Light Game
- Detect movement from smartwatches
- Scoring system promotes reaction speed and self-control

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5.B: Simon says

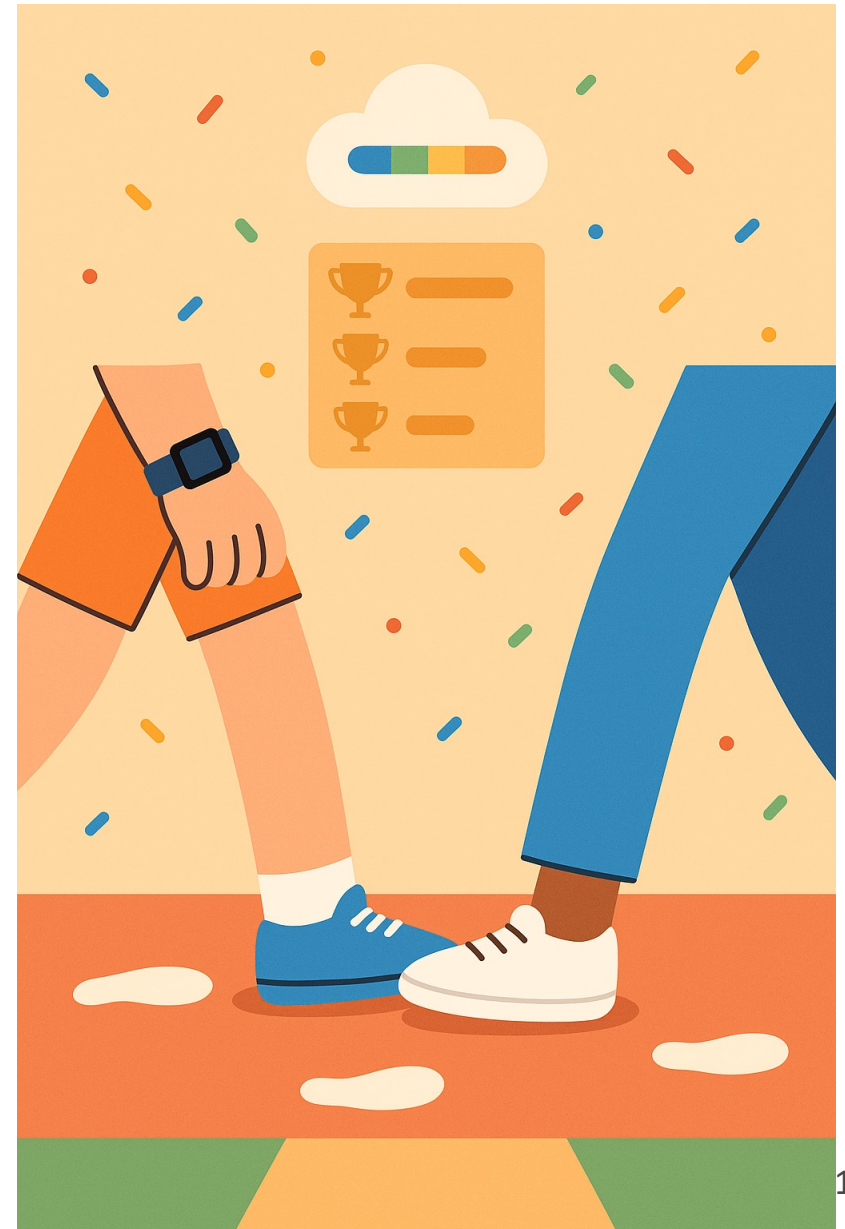
- Users follow app commands prefixed with “Simon says”
- Develop simple ML models for command recognition using Human Activity Recognition algorithms.
- Use smartwatch to detect gestures and identify errors.
- Provide real-time feedback with a scoring system.



5.C: Daily steps duel

- Develop a social fitness app that lets users compete with friends in step-count challenges using smartphone and smartwatches.
- Calculate metrics like step gait or speed using GPS signals.
- Real-time updates and motivational notifications during the challenge.
- Track wins/losses and streaks within the app.

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5.D: Workout partner

- Create a partner workout app that automatically counts exercise repetitions.
- Use ML to recognize movements from smartwatches.
- Keep users motivated with gamification, using streaks and achievements.

