https://youtu.be/UoXjy-N7JYY?si=MMFXrzPBvFBzHAqG

During the workshop, we explored various tools and software used in the production of AR and MR. Learning these tools was not just about acquiring technical skills, but also about understanding how they can be creatively applied. Integrating AR into our projects can provide a more attractive and interactive experience, pushing the boundaries of traditional design. It adds a new dimension to design, where users can interact with digital elements in a physical space. AR can enhance storytelling, create interactive educational tools, and provide unique experiences in advertising and entertainment.

Integrating MR and VR technologies into my project, a cycling weather app, can greatly enhance user experience, providing more intuitive, interactive, and immersive navigation and weather information. Here are some specific ways to integrate them:

Augmented Reality Navigation: With MR technology, navigation routes and instructions can be overlaid onto the user's actual field of view. For example, using smart glasses or helmet displays, cyclists can see the route mapped directly onto the road, eliminating the need to constantly check a smartphone or other devices.

Virtual Reality Weather Simulation: When planning cycling routes, VR technology can be used to simulate the expected weather conditions at the time of the ride. Users can experience the anticipated weather conditions, such as wind speed, temperature changes, or even rainfall, in a virtual environment, to better prepare for their ride.

Interactive Interface and Feedback: MR technology can be used to create an interactive user interface, allowing cyclists to operate navigation and check weather information through gestures or voice commands, thus keeping their hands free to control the bike.

Emergency Response: In the event of sudden weather changes or emergencies, the app can use MR technology to provide real-time routes to avoid bad weather or direct to the nearest shelter.

Training and Simulation: For competitive riders or those looking to improve their skills, VR technology can be used to simulate various cycling conditions and routes, helping them train under various weather conditions.

Rain is expected in 2 min
1.5 km ahead.

Sneezing

Impaired sense
of smell

PACT analysis
Consider the specific needs and conditions of these users when using weather apps.

- Temperature (actual and feels-like)
- Precipitation (probability and intensity)
- Wind (speed and direction)
- Local Doppler radar for precipitation information
- UV index
- Satellite view
- Spark™ lightning and dangerous thunderstorm alerts
- Local temperature
- Air pressure (measured in inches and millibars)
- Wind conditions for the day, including speed (measured in MPH, KPH, Knots, and MPS) and chill (which could be especially useful for commuters)
- Temperature (measured in Fahrenheit (°F) and Celsius (°C) units)
- Heat index
- Pollen count
- Air quality

Get Started

Weather forecast
app for cyclists

Get started

Log in

Email
jumal.wittan@gmail.com

password2

Forgot password?

By continuing, you agree to our Terms of Service and Privacy Policy.

Log in

Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123   space   Do

Tell us your goal
We will recommend routes that suit you

I'm going to ride a bike
I'm a motorcyclist
Just walk around

About allergies
We will recommend routes that suit you

Pollen allergy
Smog allergy
Other allergies

Get Started

01:22 • 21.8 km • 16.1 km/h • 150 m • 150 m

Weather Forecast

72°F
Chance of rain 10%   Cloudy

Entire Route
Huntington Beach South Downs
★ 4.65

Entire Route
Perfect Beach
★ 4.65

Get Started

Entire Route
Huntington Beach South Downs
★ 4.65

Entire Route
Perfect Beach
★ 4.65

Entire Route
Huntington Beach Bungalow
★ 4.65

Entire Route
Perfect Beach
★ 4.65

Rain expected around 7:00 pm. Locally heavy rainfall possible.

Sunday, 3 December

Cloudy

TODAY'S POLLEN COUNT IN WINCHESTER

2
Moderate

Pollen types
Tree pollen   Low
Grass pollen   Low
Weed pollen   Moderate

Help keep air quality good by biking to work and enjoying outdoor activities.

TODAY
LOW

Help keep air quality good by biking to work and enjoying outdoor activities.

TODAY
LOW

Winchester

Local Data for Today
Grass   0/100
Mold   31/100
Tree   0/100
Weed/Shrub   42/100

Data provided by Pollen Wise

Tree Pollen

Itchen Abbas

Old

Chilcomb

Get Started

Rain is expected in 2 min
1.5 km ahead.

Sneezing

Impaired sense
of smell