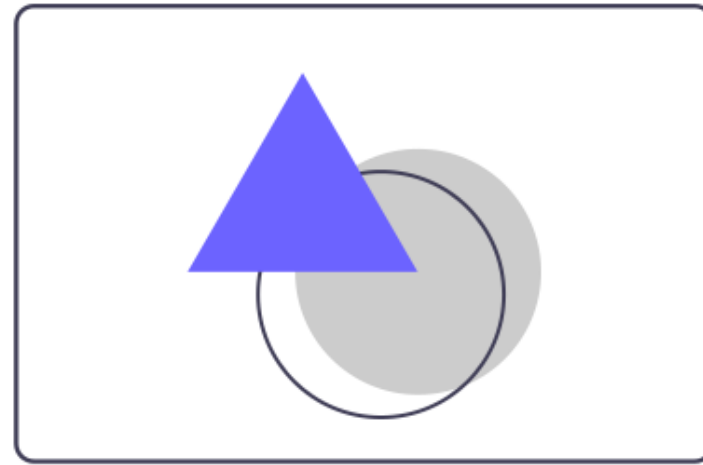




Contextual Learning: Location Based History

My Goal is to...



Enable users to learn the history of
the places that surround them



My Goal is to...

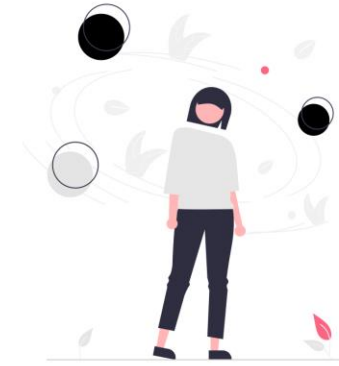


Enable users to learn the history of
the places that surround them



my users learn because they *want to learn*

Meet Marley



Informal Learner



Mobile User



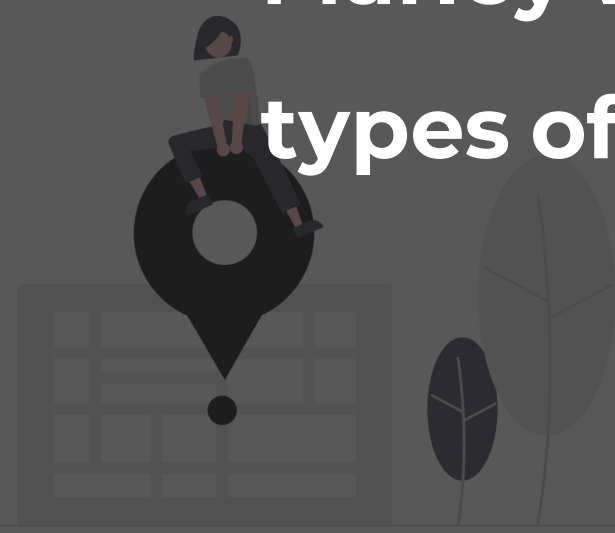
Passionate Explorer

Meet Marley

There exists an opportunity to provide
Marley with a way to answer these
types of questions as they explore.



Informal Learner

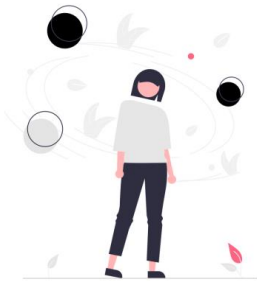


Mobile User



Passionate Explorer

Marley's Characteristics



Informal Learner

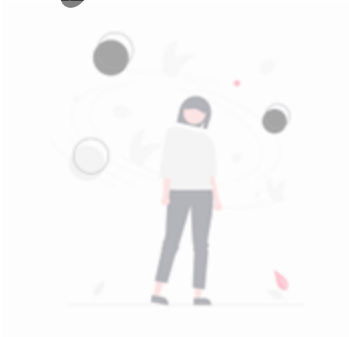


Mobile User



Passionate Explorer

Marley's Needs



Informal Learner

Complete control over the environment and pace



Mobile User

Contextual, on the go learning



Passionate Explorer

Maintained curiosity & immersion

“Learners use mobile platforms when the environment gains their focused attention and offers **curiosity and enjoyment.**”

Contextual, on the go learning

Curiosity & Immersion

Control the learning environment



Google Maps
Implementation



Augmented Reality
Learning



Learning
Preferences

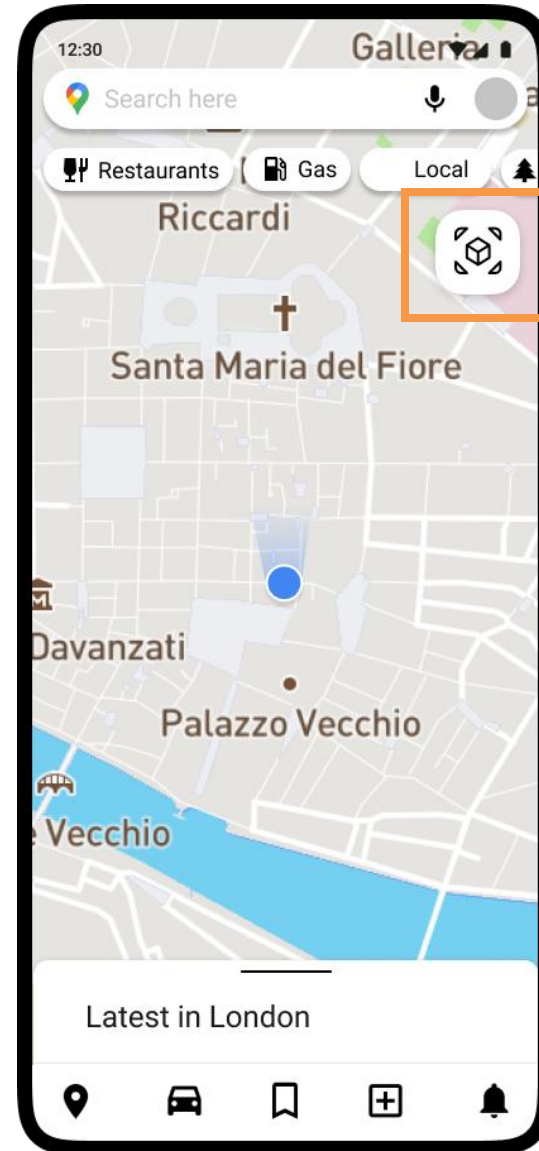


Google Maps Implementation

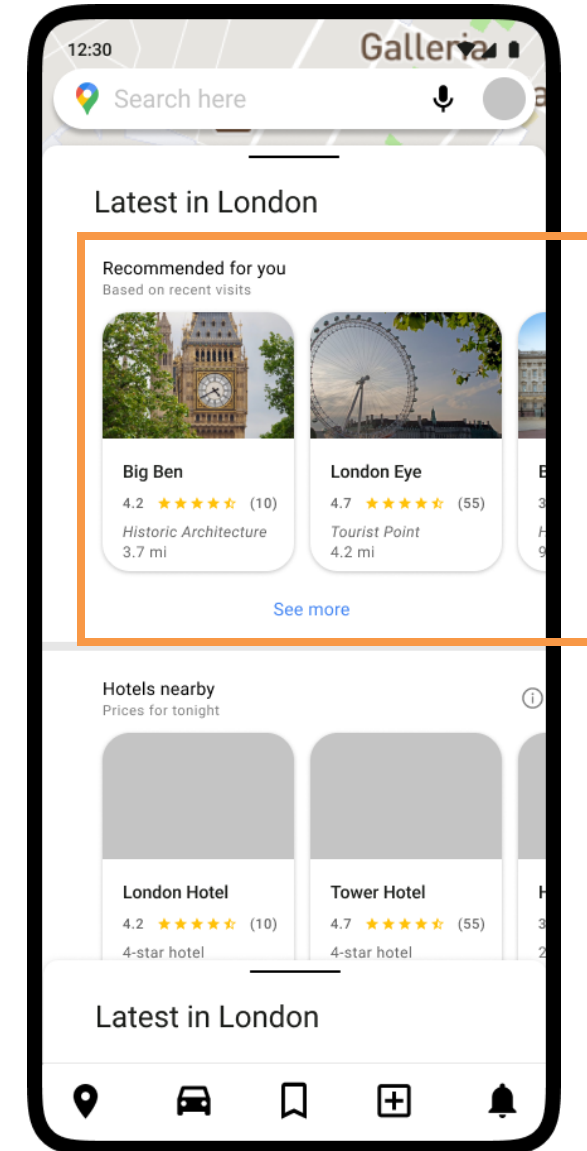
“We cannot say when and how this kind of learning takes place”



AR searching



Recommendations

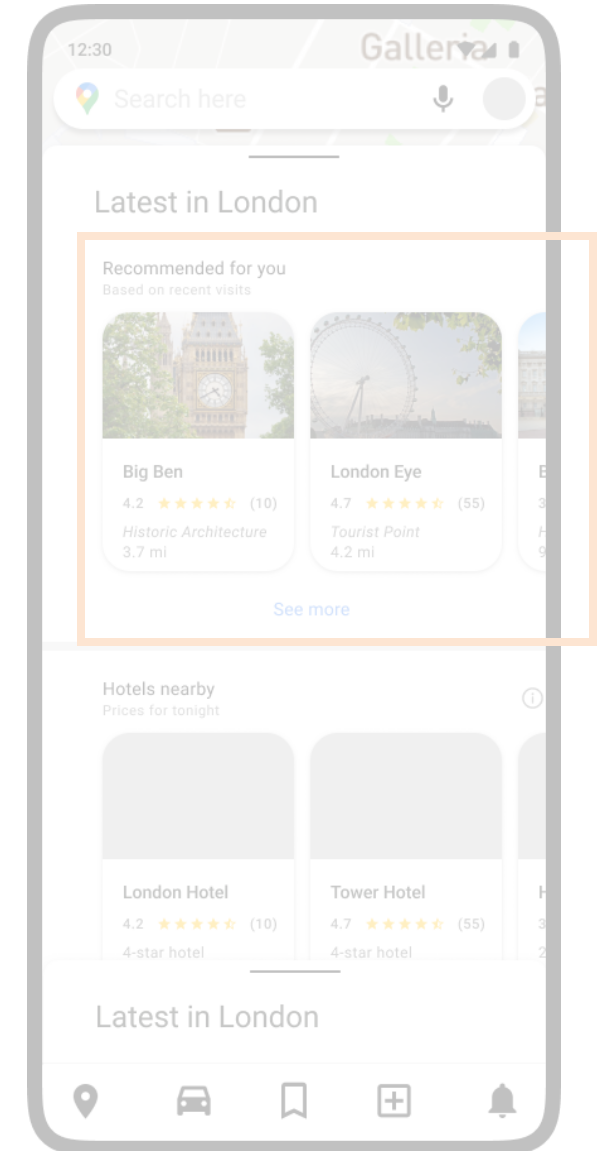
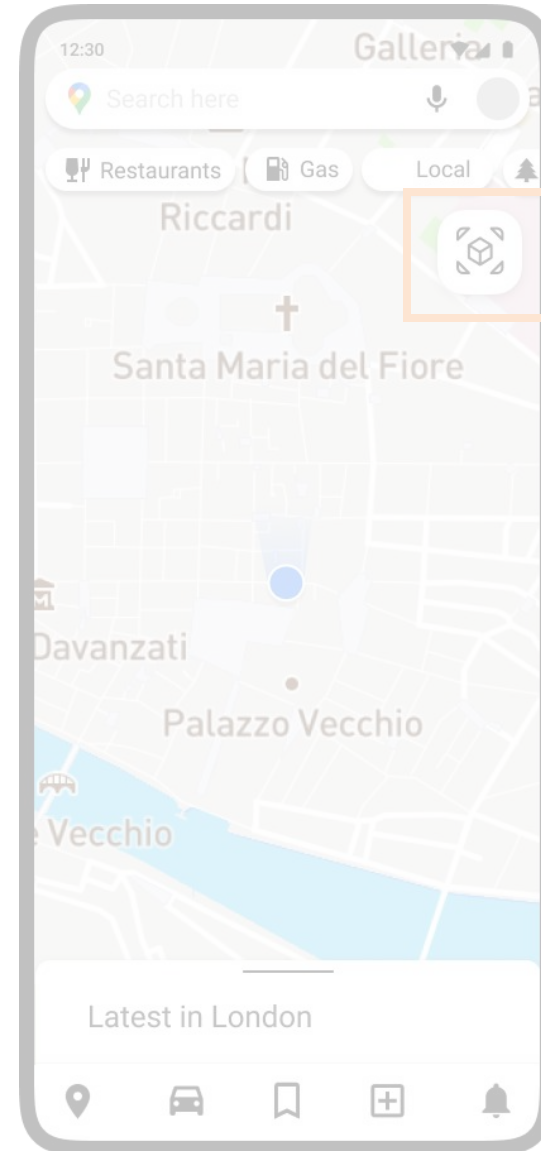




Google Maps Implementation

“We cannot say when and how this kind of learning takes place”

“Wouldn't this make the most sense as an **addition to the apps I already use** to navigate?”



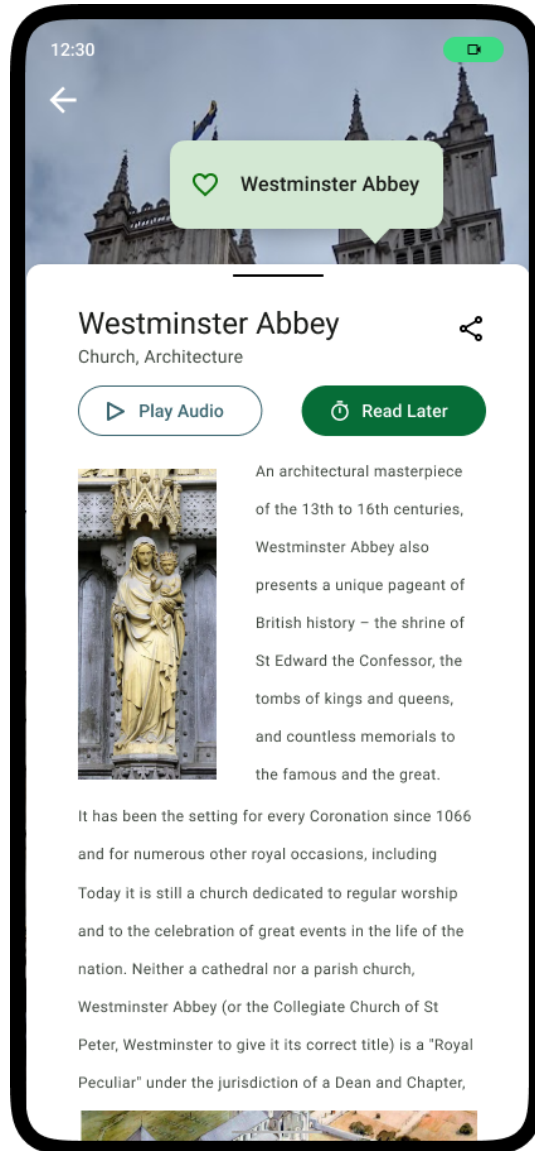
& Notifications

(Viberg 2021. Interviewee quote)

Points of Interest



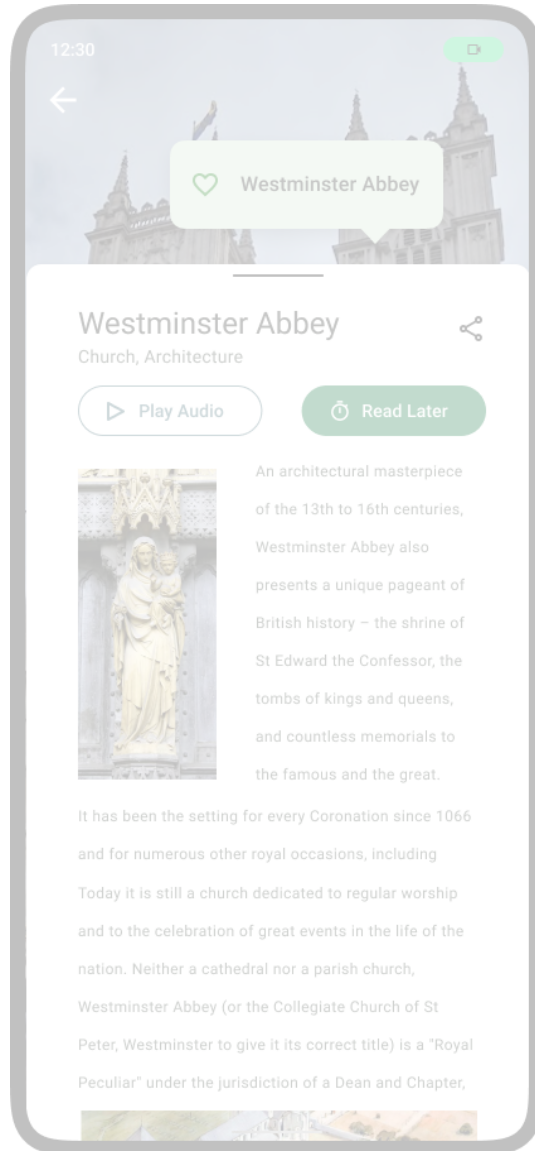
A few Resources



AR Learning

“When learning history, the learning process is disconnected from reality and experience.”





AR Learning

“When learning history, the learning process is disconnected from reality and experience.”

Supplementary to their lives:

“It would encourage me to do **my own, additional research** into the history of these places.”



Learning Preferences

"In self-directed learning, the learner maintains control of learning goals and is able to initiate the learning experience"


"People learn best when they have some control over their learning. Choice motivates people to engage with the materials."



Types of History

Learning Preferences

“In self-directed learning, the learner maintains control of learning goals and is able to initiate the learning experience”



“I don’t want to **miss an opportunity** to read about a location, but what if I’m in a hurry?”



Save For Later

Future Considerations



Smaller scale
adaptation

*Immerse ourselves in
the area and its stories*



Database
considerations

*Collected from local historians
and knowledgeable citizens*



Community focus

*Better facilitate a sense of
community*

A person wearing a hat, a white t-shirt, and a backpack is walking away from the camera on a modern, light-colored bridge. The bridge has a white railing and is supported by a central pylon with cables. In the background, there are several modern buildings with large windows. The scene is set during the day with a slightly hazy atmosphere. The text "Thank You!" is overlaid in the center in a white, cursive font.

Thank You!

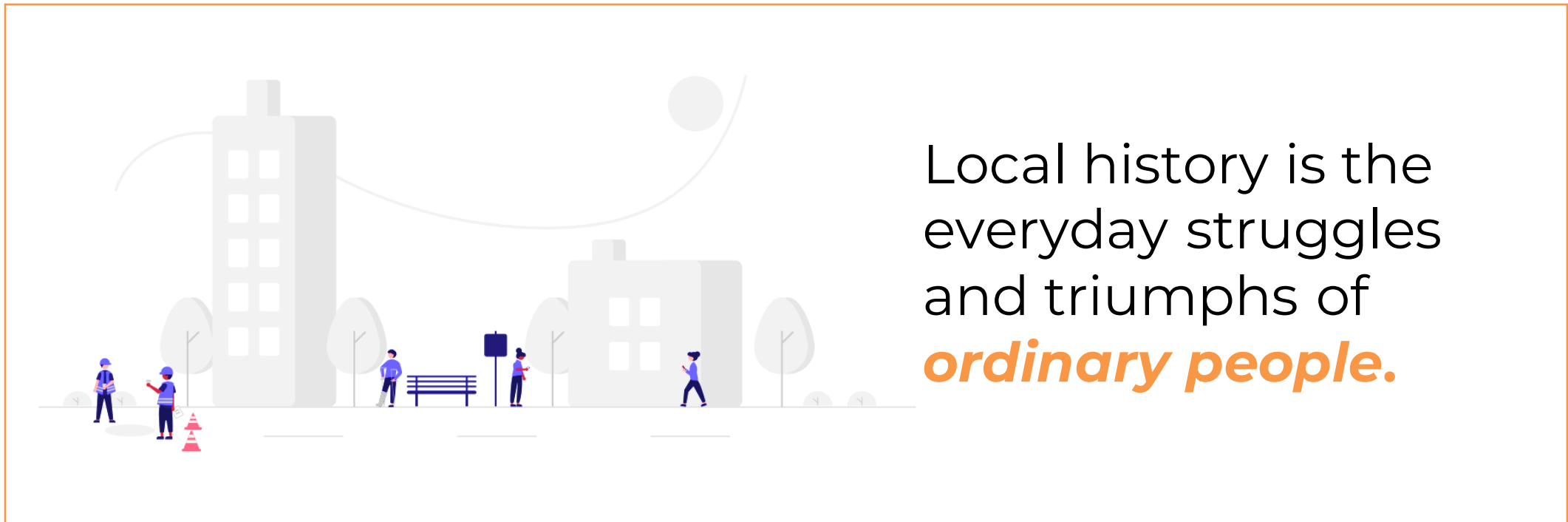
Why Local History?



“Our physical place in the world is a major determinant of how our lives are lived.”

Why Local History?

“Our physical place in the world is a major determinant of how our lives are lived.”



Local history is the everyday struggles and triumphs of ***ordinary people.***

Some examples of local history

- Under-taught history- labor unions, factory pasts, etc.
- The first park built in the neighborhood, the hotel in which somebody famous stayed when passing through, and the oldest tree in the neighborhood
- Land preservation history, unique plants, local resources
- Neighborhood contributions to history
- Education, initiatives, food pantries
- Streets, states, neighborhoods, building name changes
- Battlegrounds, fort locations, battles, what happened to these people, how they shaped history

Data Collection

- Secondary Research – a total of 13 articles
- Existing Tech research
- Reddit Diving
- Interviews with 3 users
- Testing with 3 users
- Wireframe evaluation



AlphaDavidMahmitt · 4 yr. ago

Like most people said, the learning is an indirect result of the games because it sparks people's interest and curiosity. So I don't think it's a direct tool. A lot of the writeups/dossiers they provided on people and places are good though.

LIT REVIEW

Learning about Local History: Background, Technologies & Strategies

Background

Search Strategy

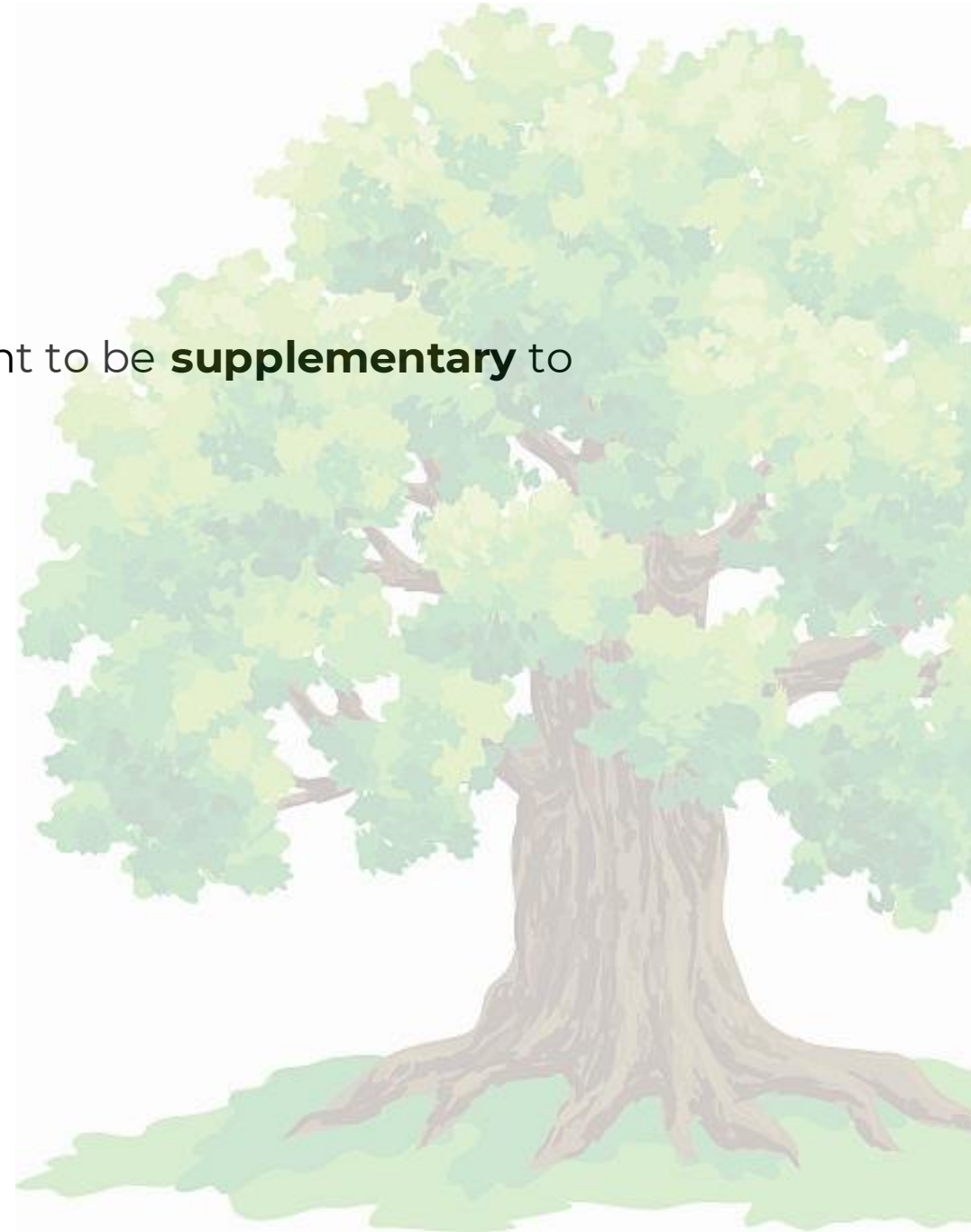
I searched for relevant publications through the PurdueLibraries Database. The following search strings were used: mobile learning, informal learning, local history, human geography, location based applications, and mobile technologies. I was guided by the following inclusion criteria:

- papers published during 2016 – 2021;
- papers published in English;
- papers relevant to the search criteria.

I read about 12 articles, seven of which are included in the following review.

Environment?

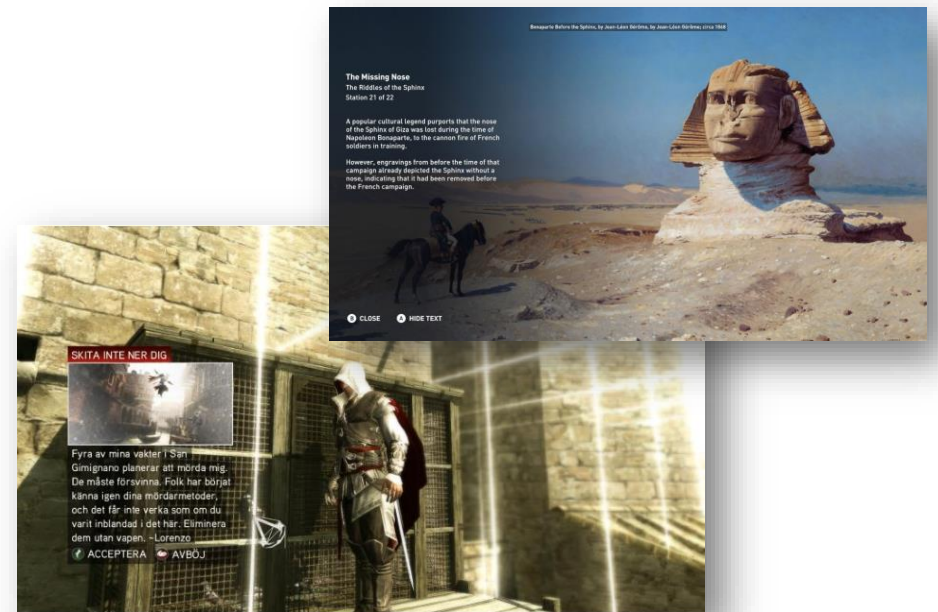
It wasn't a huge consideration for me, this was meant to be **supplementary** to people's lifestyles, not change them.



Inspiration

Assassin's Creed

Geocaching



“ACIII gave me a comprehensive understanding of the time period, and made me actively interested in doing my own research and comparing to the game's portrayal. It brought history to life for me.” darkspine10

“I learned a lot. But only because they made curious and encouraged me to do research.” turulbird

“the learning is an indirect result of the games because it sparks people's interest and curiosity. So I don't think it's a direct tool.” AlphaDavidMahmitt

Inspiration

Assassin's Creed

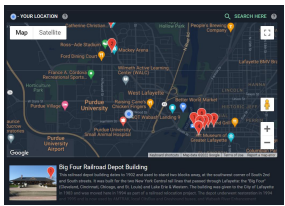
Geocaching



“I like geocaching because it takes me places; it takes me places I might not otherwise go, shows me things I might not otherwise see, teaches me things I might not otherwise learn. The cache itself is a waypoint.” (User on forums.geocaching.com)

“For me its an opportunity to discover new and interesting places. Often they are practically in my backyard and I never knew about them until I started geocaching. It's simply a great way to explore the world around you.” (User on forums.geocaching.com)

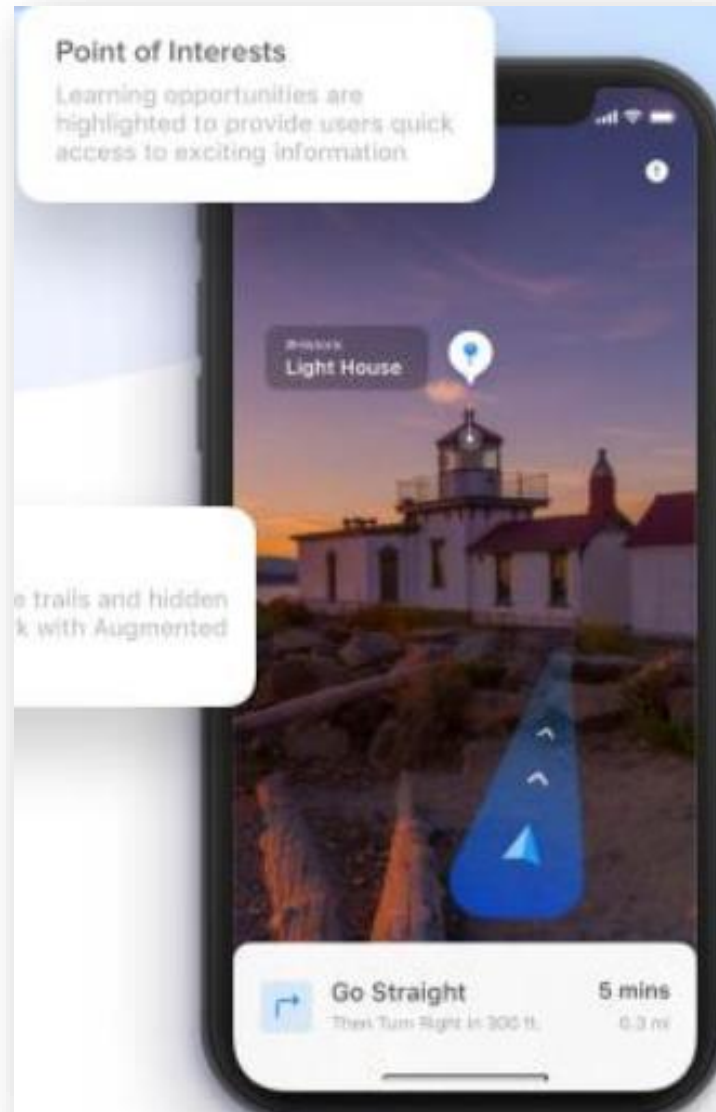
Existing Tech



Clio



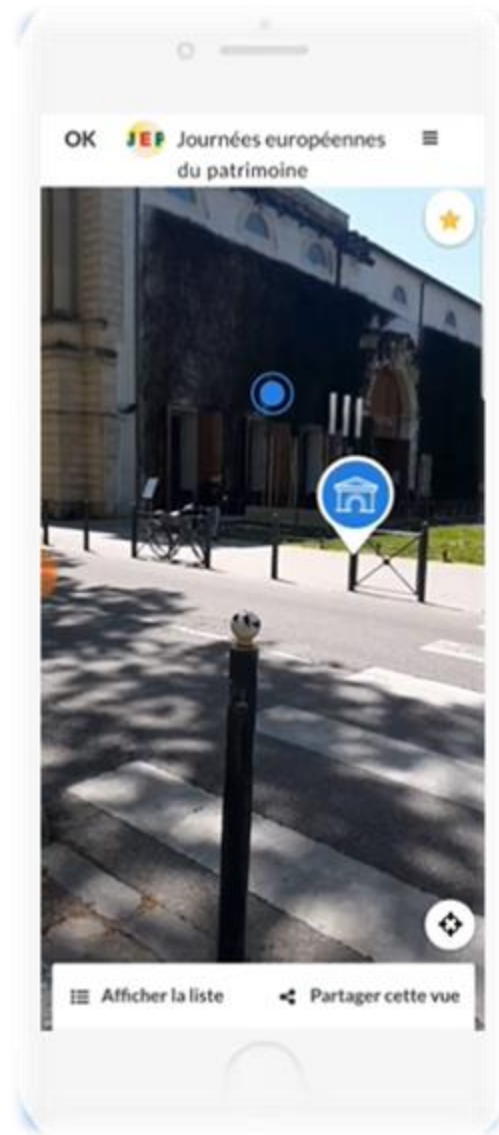
WeMap



DiscoverAR

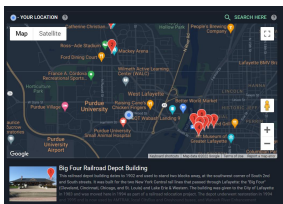
focused solely on **one park** and does not consider how this could be **implemented further**

Existing Tech

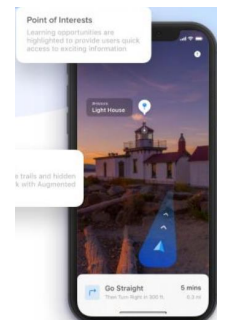


WeMap

focuses on navigation, no **information gathering**

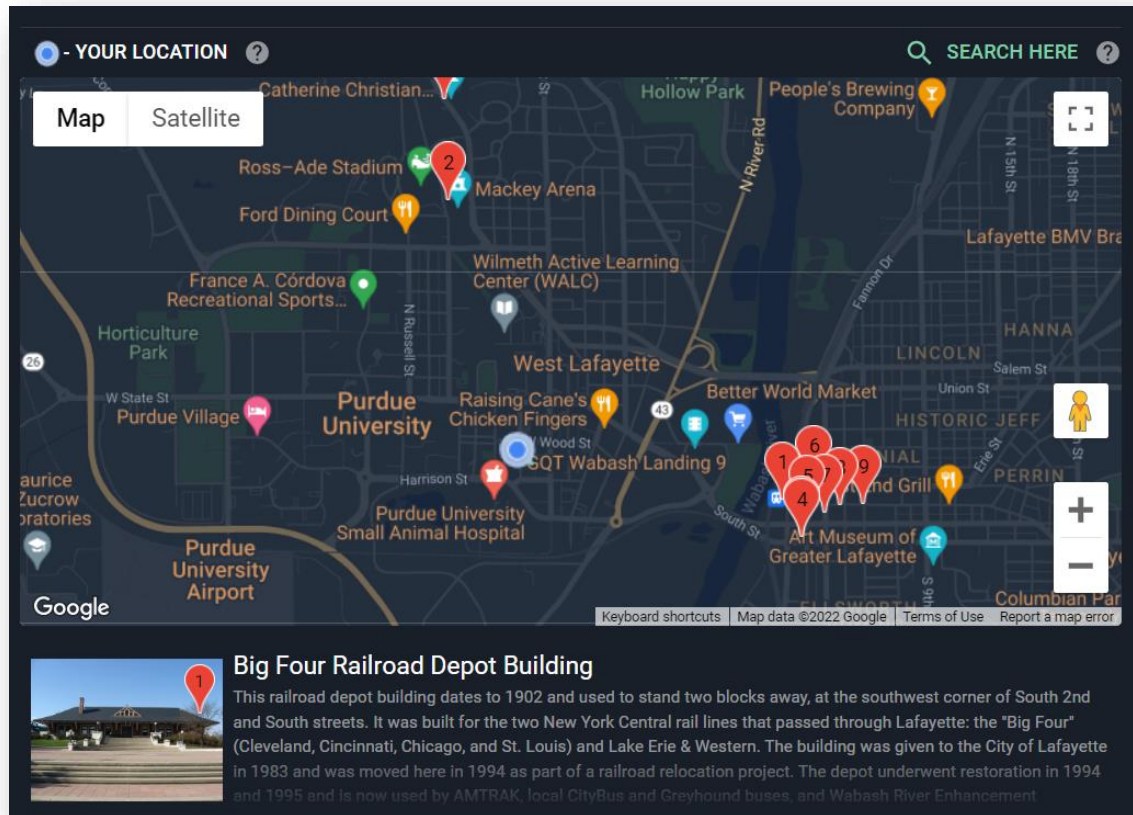


Clio



DiscovAR

Existing Tech

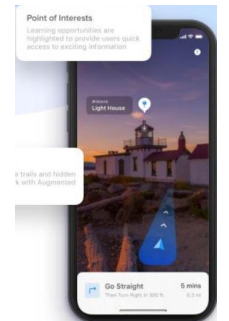


Clio

doesn't leverage **mobile capabilities**- focuses solely on information gathering



WeMap



DiscovAR