

Fotos4Family

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WHO WE ARE

Fotos4Family Description of the project

Fotos4Family is a web application designed to help families and friends preserve memories by allowing them to collaboratively pin, comment on, and upload photos from special locations around the world. The idea comes from a simple vision: to create a digital map of shared experiences.

Imagine going on a trip with loved ones and being able to mark that exact spot on a map, leave a comment, and add a photo that captures the moment, then invite others to do the same. That's exactly what **Fotos4Family** offers.

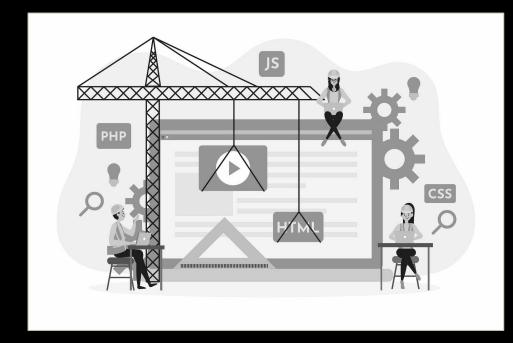
Whether it's a road trip, a family gathering, or a solo adventure, users can:

- Ø Drop personalized pins on an interactive map
- William Upload meaningful photos tied to specific places
- S Add friends and explore their map and memories too



Our platform is more than a travel log. It's a memory network, a space where people visually connect with the places and people that matter most.

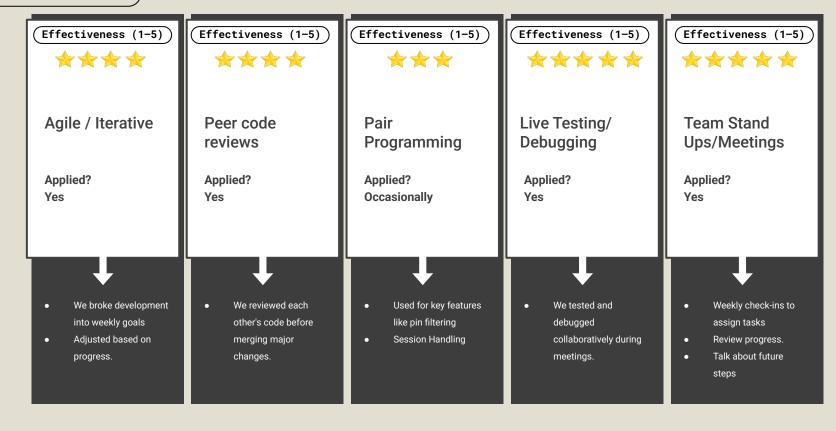
Fotos4Family is our way of helping users build a shared legacy, one pin at a time.



All the tools used

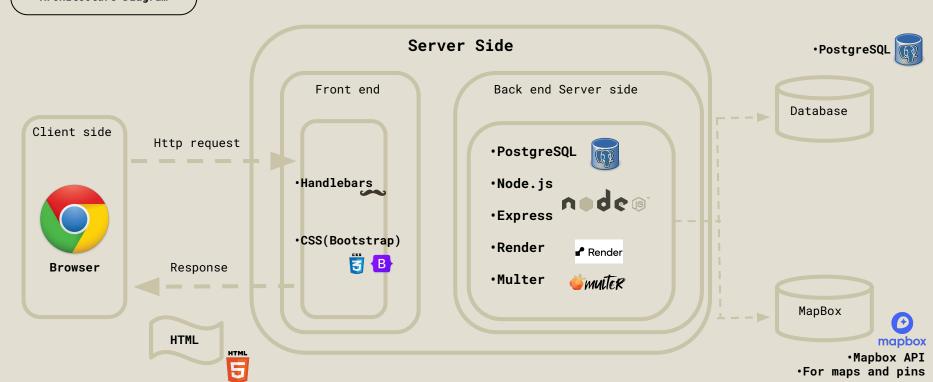
	Tool & Logo)	Rating(1-5)	Methodology Tags	Purpose		
Fotos4Family	1	GitHub	***	•Peer Code Reviews •Branch Workflow	•	Version control Collaboration Github Projects Board	
	2	VSCode	****	•Programming •Individual Dev	•	Main IDE for development	
	3	PostgreSQL	****	•Backend Integration	•	Relational database	
	4	Node.js/Express	***	•Express Framework	•	Application server	
	5	Render Render	***	•CI/CD Deployment	•	Deployment platform	
	В	Mocha/Chai chai mocha	***	•Testing	•	Unit testing backend routes	
	7	Handlebars	***	•Dynamic UI •Rendering	•	HTML Templating	
	8	Mapbox API Omapbox	***	•External API •Integration	:	Interactive Maps Home page (maybe most important)	
	9	Bootstrap + CSS B	****	•Responsive Design	•	UI styling Layout	
	10	Multer É muileR	***	•Middleware Integration	•	File/image upload	
	11	MS Teams/Zoom ZOOM	****	•Keeping in touch •Chatting	•	Key for communication (2x per week) Async Updates, Team Sync	

Methodologies



Architecture Diagram

Architecture Diagram



Challenges

A 1. Changed Vision

We initially planned a public app where users could share their travels with **everyone**. Midway, we pivoted to focus on private sharing with **friends and family**, aligning better with meaningful, secure interactions.

▲ 2. Saving MapBox Coordinates

Finding a way to save and get **latitude and longitude coordinates** from Mapbox while creating pins was a significant challenge. By combining our database schema with Mapbox event listeners, we were able to overcome issue.

▲ 3. Map Filtering Functionality

Originally, we didn't plan to let users **filter pins by specific people.** After team discussions, we implemented a filter to view only your pins, **all friends' pins, or selected friends' pins**, greatly improving usability

A 4. Adding Friends via Code

We designed a friend system based on **unique codes**, which required careful backend logic to prevent duplicates and self-adding. We successfully created a **friend-code-based system** with validation and error handling.

▲ 5. Image Upload & Display Issues

Initially, uploaded images **weren't visible** due to incorrect static directory setup. We resolved it by ensuring our uploads/ path was correctly exposed via Express static middleware.

A 6. No Initial Test Coverage

We didn't begin with automated testing, which slowed debugging. We later integrated **Mocha and Chai** to cover our critical API endpoints.

Future Scope/Enhancements

Future Scope/Enhancements

1. "Trip Mode" for Real-Time Tracking



2. Real-Time Notifications & Activity Feed 📭



3. Support for Uploading Videos



4. Event Pins



Fotos4Family

Demo your project



Link: https://youtu.be/GRCjFl1ViH4

Thank You!



Fotos4Family

Q&A

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