



Dev Log: My Two Homes Project

December 1-7, 2025 • 49 Hours of Development

Cultural Memory Book - Taraz & Seoul Journey

Live App

GitHub Repo

Project Video



Development Statistics

7

Days of Work

49

Total Hours

6

Features Built

150+

Lines of Python

50+

Images Processed

3

Data Files Created



Daily Development Log

Day 1: December 1, 2025

7 hours

Project Initiation & Planning

Morning (3 hours):

- Brainstormed project concept based on personal experience
- Created project structure and file organization
- Set up GitHub repository with proper README template
- Defined 6 main features to implement

Afternoon (4 hours):

- Gathered and organized 50+ personal photos
- Created initial data structure for memories
- Designed database schema in CSV/JSON format
- Wrote personal story narrative for the project

 **Achievement:** Project foundation established

 **Challenge:** Organizing scattered memories and photos

Planning

Git

Data Design

Day 2: December 2, 2025

7 hours

Streamlit Setup & Core Implementation

Morning (3.5 hours):

- Set up Python environment with required dependencies
- Created basic Streamlit app structure (app.py)
- Implemented navigation system between pages
- Added custom CSS styling for better UI

Afternoon (3.5 hours):

- Built Home Page with introduction section
- Implemented "My Two Homes" visualization
- Added quick statistics display
- Created responsive layout for different screen sizes

 **Achievement:** Working Streamlit application

 **Challenge:** Learning Streamlit layout system

Python

Streamlit

CSS

Day 3: December 3, 2025

7 hours

🍴 Food Journey Feature

Morning (3 hours):

- Created dishes.csv database with 20+ food items
- Implemented food comparison functionality
- Added "Nostalgia Index" calculation algorithm
- Designed food cards with images and descriptions

Afternoon (4 hours):

- Integrated food images with lazy loading
- Built interactive food filters (Kazakh/Korean)
- Added sorting by nostalgia level
- Implemented responsive image gallery

 **Achievement:** Complete food journey section

 **Challenge:** Image optimization for web

Pandas

CSV

Image Processing

Day 4: December 4, 2025

7 hours

Memory Book & Journey Map

Morning (3.5 hours):

- Implemented memory.json data structure
- Built memory timeline with dates and emotions
- Added memory filtering by emotion and location
- Created memory detail view with photos

Afternoon (3.5 hours):

- Integrated Folium for interactive maps
- Created journey map from Taraz to Seoul
- Added custom markers for important locations
- Implemented distance calculation and display

 **Achievement:** Interactive memory system

 **Challenge:** JSON data validation and structure

JSON

Folium

Maps

Day 5: December 5, 2025

7 hours

Meaningful Words & Statistics

Morning (4 hours):

- Created words.csv with cultural vocabulary
- Built word comparison feature (Kazakh vs Korean)
- Added pronunciation guides and examples
- Implemented search functionality for words

Afternoon (3 hours):

- Developed personal statistics dashboard
- Added Plotly charts for emotion distribution
- Created memory timeline visualization
- Built cultural balance comparison charts

 **Achievement:** Data visualization complete

 **Challenge:** Plotly chart customization

Plotly

Data Visualization

CSV

Day 6: December 6, 2025

7 hours

UI Polish & Performance Optimization

Morning (3 hours):

- Improved overall UI/UX design
- Added hover effects and animations
- Enhanced mobile responsiveness
- Fixed layout issues across different pages

Afternoon (4 hours):

- Optimized image loading (compression, lazy load)
- Improved app loading speed
- Added loading indicators
- Implemented error handling and user feedback

 **Achievement:** Production-ready application

 **Challenge:** Performance optimization

UI/UX

Performance

Responsive Design

Day 7: December 7, 2025

7 hours

Deployment & Documentation

Morning (3.5 hours):

- Deployed application to Streamlit Cloud
- Configured custom domain/subdomain
- Tested deployment across different devices
- Fixed deployment-specific issues

Afternoon (3.5 hours):

- Created comprehensive README.md
- Recorded and edited project video
- Wrote installation and usage instructions
- Added MIT License and contribution guidelines

 **Achievement:** Project successfully launched!

 **Challenge:** Streamlit deployment configuration

Deployment

Documentation

Streamlit Cloud

Key Takeaways

What I Learned:

- **Streamlit is powerful** for rapid prototyping of data applications
- **Personal projects** are the best motivators for learning
- **Data organization** is crucial before coding begins
- **Performance optimization** should be considered from the start
- **Documentation** is as important as the code itself

Technical Skills Gained:

Streamlit Advanced Features

Data Visualization with Plotly

Interactive Maps with Folium

Web Performance Optimization

Cloud Deployment



Project Links



Live Application: <https://mytwohomesynaiym.streamlit.app/>



GitHub Repository: https://github.com/samg050213sh/my_two_home_project-kr-kz-



Project Video: <https://youtu.be/WoYOpA6vjxQ>



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Future Improvements

- Add user authentication for personalized memory books
- Implement machine learning for emotion pattern analysis
- Create mobile app version
- Add voice recording functionality for memories
- Translate interface to multiple languages
- Add social sharing features

Dev Log Period: December 1-7, 2025

Total Development Time: 49 hours (7 hours/day × 7 days)

Project Developer: Amanaliyeva Shynaiym

Location: Developed between Taraz memories and Seoul reality

 A week of intense development, turning homesickness into a digital masterpiece.