AUGMENTED & VIRTUAL REALITY PRESENTATION

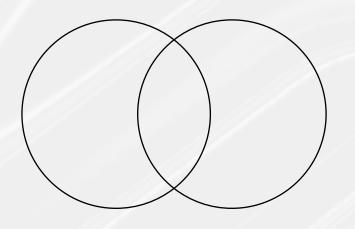
Group: Smit, Milan, Milankumar



GAME CONCEPT RECAP

Embark on a thrilling adventure through ancient palace ruins with three engaging mini-games. Start by piecing together a torn, 2D map to reveal hidden rooms and crucial locations. Then, use augmented reality (AR) to scan the ruins, uncover glowing relics, and gather vital clues. Finally, unlock the treasure chest by solving an interactive AR puzzle, aligning symbols, and manipulating relics to complete your quest and claim the ultimate reward.

PROGRESS HIGHLIGHTS & FIRST USER STUDY RESULTS



Participants:

- Demographics: [e.g., 3 target users, aged 18-30].
- Scope: Tested one minigame.

Quantitative Findings (HARUS):

- Effectiveness: Average score 5.8/7.
 - Participants found it easy to locate virtual treasures.
- Learnability: Average score 5.5/7.
 - Users adapted quickly to AR mechanics.

Qualitative Insights:

- What Worked Well:
 - "The treasure hunt is engaging and fun!"
 - Arranging pieces.

Challenges:

- Difficulty interpreting some clues.
- Too many map pieces to collect.
- Somewhere user was getting confused.

USERSTUDY 2 OVERVIEW & METHODOLOGY



 Past three participants from user-study 1 of age group 16-23 years youth.

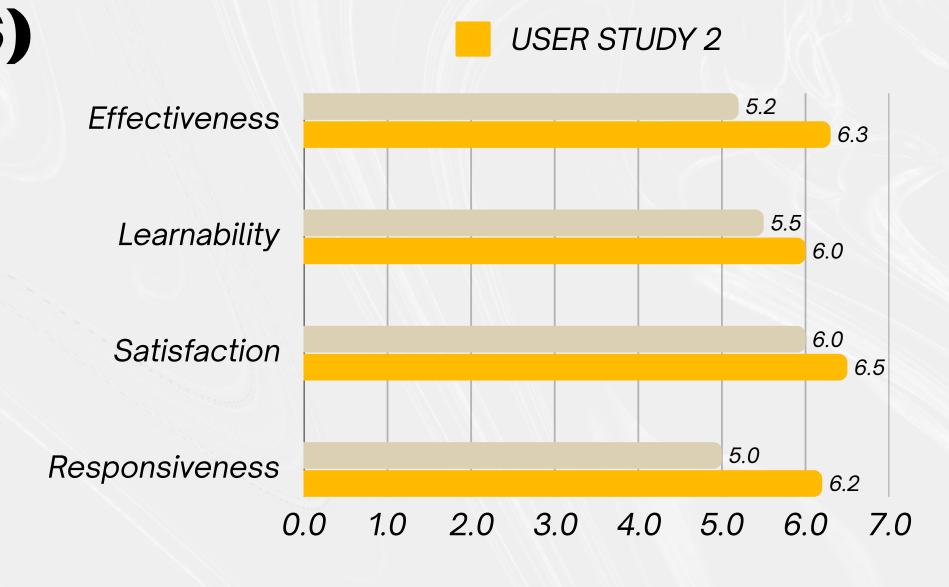
• Testing Scope:

- Expand on the parts of the application tested (e.g.,
 Combined mini-game 1-2 instead of just one minigame).
- This study was conducted on mobile phone instead of laptop

• Methodology:

- Survey Tool: HARUS questionnaire with 7-point Likert scale.
- Additional Feedback: Include qualitative questions to gather detailed user opinions.
- Provide examples of qualitative feedback questions, like:
 - "Which mini-game was more interesting?"
 - "What challenges did you face during the AR game play?"

QUANTITATIVE RESULTS (HARUS SCORES)



USER STUDY 1

Key Observations:

Effectiveness: Higher scores indicate smoother interaction and task completion. **Learnability:** Improved gaming experience in mini-game 1 helped users adapt quickly.

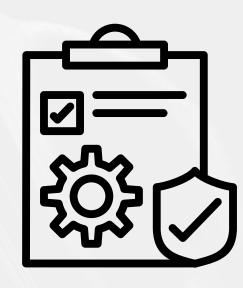
QUALITATIVE INSIGHTS

Positive Feedback:

- "The game is more engaging with better treasure clues and smoother AR tracking."
- "The added variety of tasks made the gameplay more interesting."

Negative Feedback:

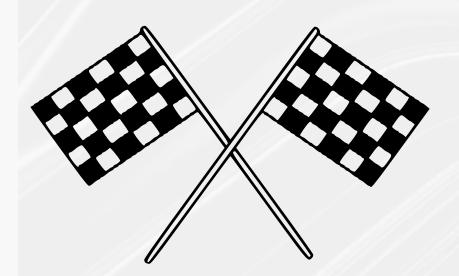
- A participants suggested additional hints for AR game.
- Themes Identified:
 - Improved immersion and usability.
 - Remaining technical issues.



FINAL

CHANGES TO MAKE BEFORE DEADLINE

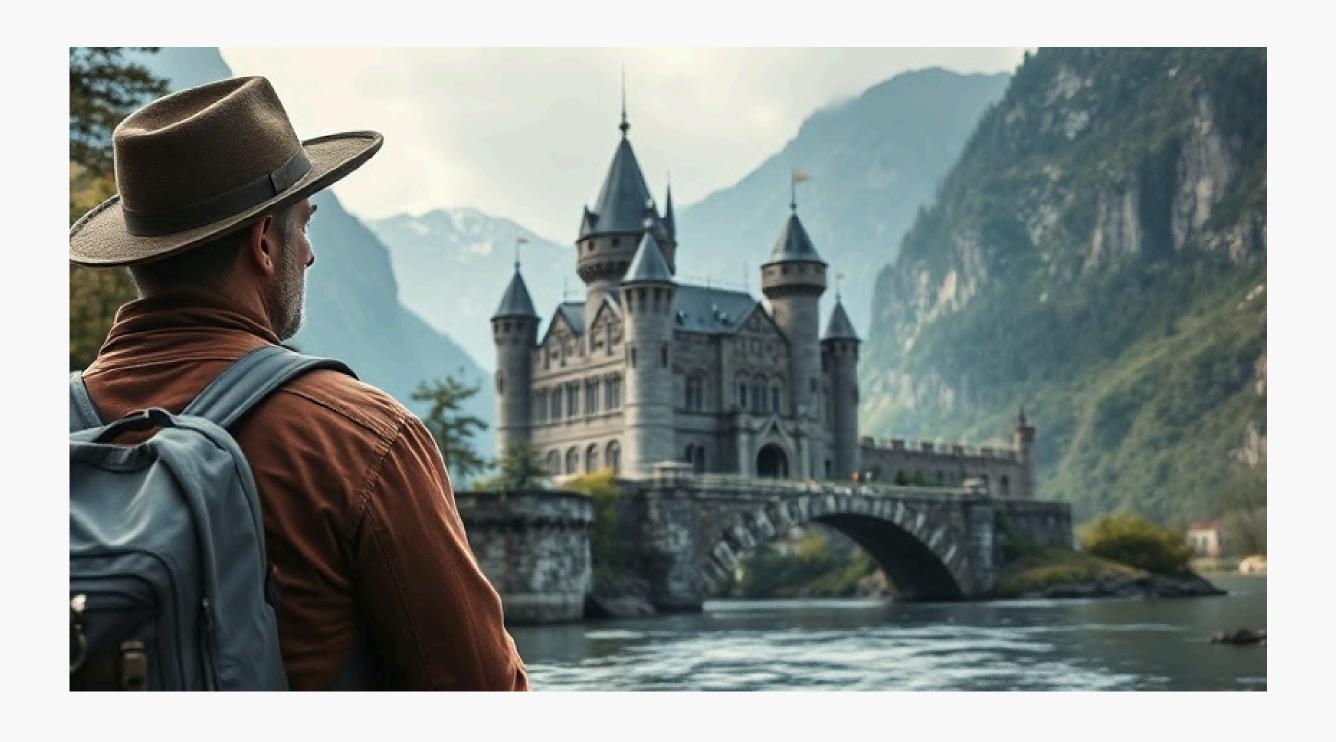
- Completing mini-game 3.
- Creating more engagement, ease of use by (fine-tuning clues, enhancing AR tracking).
- Prioritize improvements that have the most significant impact.
- Adding clarity of instructions.
- Include tooltips for important features during the first gameplay session.
- Make the navigation menu more intuitive.
- Would like to progress in testing the full application.
- If time allows we will try to refine User Interface.



GANE



STORY VIDEO



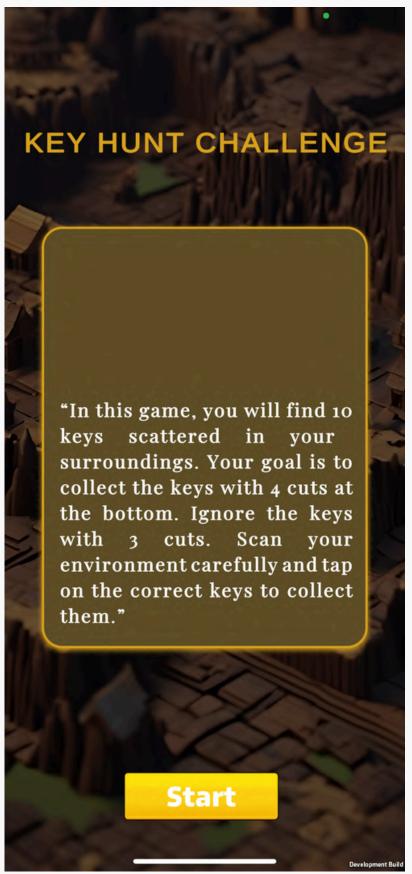
COMPARISON AFTER TESTING

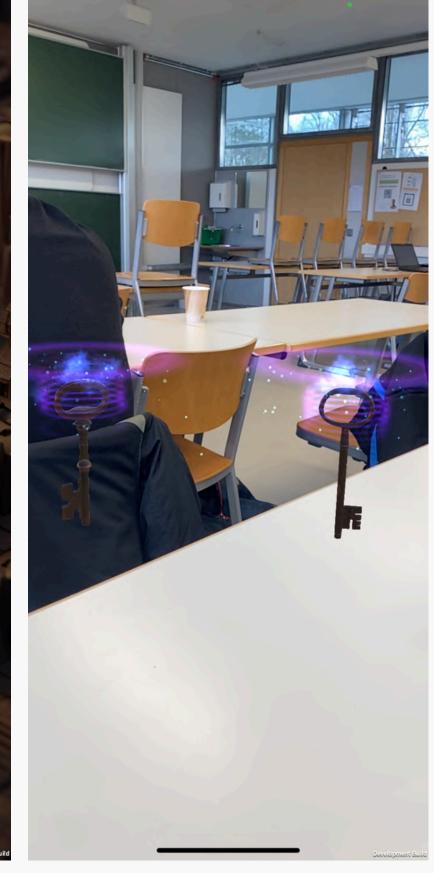












January: Final Refinements & Testing

December: Advanced AR Development

Polish UI, improve game mechanics, and optimize AR interactions, Continue user testing to refine gameplay and fix bug.

development of Minigame 2 and Minigame 3, user testing of all minigames, 7

November: AR Mechanics & First Minigame Development

Start building the 2D puzzle minigame, Integrate basic UI,
Implement AR scanning and object-tracking functionalities.

Development

Start building the 2D puzzle minigame, Integrate basic UI,
Implement AR scanning and object-tracking functionalities.



Concept Finalization, persona, wireframe, Begin Basic Development(Unity setup)

What went well

- Successful Implementation of Core Features:(Key game mechanic with AR, Interactive minigames)
- Creative Design and Storytelling:
- Learning and Growth

What Did Not Go So Well:

- Time Constraints:
- Technical Challenges:

 (Never used unity before,
 Initial difficulties in
 configuring AR Foundation
 components)

Development Status Rating

- Overall Development Status: 7.5/10:
- While the application is functional and provides an engaging user experience, it still requires more polishing, optimization, and additional features.

Future Improvements (To Make It a Product):

- Enhanced Graphics and Animations
- Scalability
- Performance Optimization
- Polished UI/UX
- Testing and Feedback

FINAL CONCLUSION

"Creating this AR treasure hunt game has been a rewarding experience, showing how AR technology can make fun and engaging experiences. The game has a strong base, but improving the graphics, performance, and features would help make it a great product for the AR gaming market. The challenges we faced and lessons we learned will help us in future projects."

Thank You