



STEM for Inclusive Schools

WP2 – Activities

Worksheet – Water Conservation Mobile Application

Science / Technology (November 2024)

INOGIT

Project Title:	STEM for inclusive Schools
Acronym:	STEMinSCH
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Project partners:	P1 University Paderborn (UPB), DE P2 Universitatea Dunarea de Jos din Galati (UDG), RO P3 Scoala Gimnaziala Nr. 7 Galati, RO P4 Siec Badawcza Lukasiewicz - Instytut Technologii Eksploatacji, PL P5 Inovatif ve Girisimci Toplum Dernegi, TR P6 Sucessos Criativos, Lda, PT



Task Description:

Students are tasked to design and develop a water conservation mobile application. The application will include features such as water-saving tips, daily water usage tracking, and a points system to encourage sustainable water use.

Time to finish the task: 1 week

Supplies:

- Computers or tablets with internet access
- MIT App Inventor account
- Basic coding knowledge
- Brainstorming materials (paper, markers, etc.)

Method:

Students will work in small groups to brainstorm, design, and code the application using MIT App Inventor. They will test their application and refine it based on feedback.

Detailed Instructions:

- **Brainstorming Session (Day 1):****
 - Form groups of 3-4 students.
 - Discuss the significance of water conservation and list potential features for the app.
 - Create a rough sketch of the app interface on paper.
- **Design and Development (Days 2-4):****
 - Use MIT App Inventor to design the app interface.
 - Implement key features such as:
 - A 'Water-Saving Tips' section.
 - A daily water usage tracker.
 - A reward system based on points or badges.
 - Test the app's basic functionalities using the 'AI Companion' app.
- **Testing and Feedback (Day 5):****
 - Share the app with classmates for testing.
 - Gather constructive feedback and document suggested improvements.
- **Final Adjustments and Presentation (Day 6-7):****
 - Refine the app based on feedback.
 - Prepare a presentation highlighting:
 - The app's features.
 - How it promotes water conservation.
 - Challenges faced and how they were overcome.

Observation Table:

No	Date	Feature	Challenges	Solutions	Feedback
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		Developed	Faced	Found	

Testing Results Table:

No	Tester Name	Feature Tested	Issues Found	Suggestions

Follow-Up Questions:

1. What are some additional features that could be included in the app to improve its functionality?
2. How can this app be made more accessible to users with different needs?
3. Discuss how this app could be scaled for use in larger communities or schools.
4. Reflect on how this activity has enhanced your understanding of water conservation and technology.