

# Research Findings: Action Research

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## 1. Background

We need to decide on a research methodology for the first part of our project. We decided it would be a good idea to split the project in to essentially two phases, an in-depth research phase and development phase.

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## 2. Objectives

Understand what the Action Research methodology is and why it would be best for us.

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## 3. Approach

Watch YouTube videos, read articles about research methodologies.

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## 4. Findings

4.1. Action Research is the process of learning by doing.

4.1.1. A group of people would identify a problem. Do something to resolve it and see how successful their efforts were. If they are not satisfied with it they try again. This repeats in a cycle.

4.2. Action Research has a cyclical nature and there are four steps in each cycle.

4.2.1. Plan, Act, Observe and Reflect. Much like a Software Development Life Cycle.

4.2.2. DETAILED Action Research has five phases in each cycle – Diagnosing, Planning, Action, Evaluation, Specifying Learning

4.3. The basic principle of the Action Research method is that it is collaborative. Each participant in the project will be co-researchers, each person's ideas are equally significant and everything is shared and involve negotiation.

4.3.1. It tries to avoid any skewing from the idea-holder as everyone can talk about what they think of the research that has been done.

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## 5. Further Investigation

5.1. Are there any other research methodologies that would benefit us better?

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## 6. Recommendations

6.1. I think the Action Research method is a really good approach for us because it is consists of many cycles and doing collaborative research. Our research in to Augmented Reality will need to be extensive and we must all understand what it is, how it works and what a good use for it is. Coming together to share and evaluate ideas gets us moving quickly and we are able to cover a larger amount of information. It will help us make a decision on whether or not we decide to take approach A or approach B for the project.

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## 7. References

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