

Mid Assignment

It's a group-wise assignment

Identify a IOT related issue that is of interest to you. In your submission, provide the following:

- **State your topic of interest.** Write a one-paragraph of 1 page description of the current state of knowledge about this topic (find a recent academic or well-researched news article).
- **State Problem of Statement** Identify a few articles (academic or well-researched press) that can help you hone in on the problem *you want to address*. Revise your paragraph into a problem statement that addresses the key questions (*who, what, when, where, why, how*). Be specific about what problem you intend to focus on. Remember that your problem statement should logically lead to your study's primary research question.
- **State your primary research question** This is the broad question your study will answer.
- **State at least two specific aims/objective.** These should be components of the primary research question that you will need to complete in order to answer the question. Recall that specific aims are generally worded as "To understand...", "To describe...", "to investigate...", etc.
- **State Hypothesis** A research hypothesis is a statement of expectation or prediction that will be tested by research.
- **State Literature Review. Write 2 pages of related work/description of your chosen topic.** Literature Review is a surveys of scholarly articles, books and other sources (e.g. dissertations, journal, conference proceedings) relevant to a particular issue, area of research, or theory Textbook, magazine, Bulletin are not suggested. It is providing a description, summary, and critical evaluation of each work (each research article)
- **Selection of Design (Qualitative/Quantitative/Mixed) Select a design and stated the reason of selection.** Quantitative research is a structured approach of enquiry where everything that forms a research process (objectives, design, sample, etc.) is predetermined. Qualitative research is an unstructured approach of enquiry that allows flexibility in all aspects of the research process. A more appropriate for determining the extent of a problem. Mixed methods involves combining both qualitative and quantitative study and data in a research.
- **Find and stated Research Variables** Research is the study of the relationship among variables. Variable: Any characteristic that can take on more than one value e.g. speed, accuracy of feedback, reaction time. There must be, at least, two variables in a research study
- **Develop Scientific Method (Diagram)** Research methods describes how the objectives will be achieved. They address: How will data be generated or collected Analytic techniques to be used Sequence of procedures
- **Provide a citation** and/or link to the article you used to research your topic. Follow APA 6/IEEE citation and reference format.

I. Documentation

1. Prepare the report in docx (9-10 pages) with cover page.
2. Prepare PowerPoint slide presentation (Max 8 min presentation time).
3. Follow the Report Format: Times new Roman, font size 12, line spacing 1.5, paragraph justify, APA 6 /IEEE reference/citation.
4. Report plagiarism will strictly check so don't copy from others.

II. Deliverables

1. Presentation (group-wise): Nov 24, 2024, Sunday
2. Report Submission Deadline: Nov 24. Report should be based on Hardcopy (spiral binding) with official AIUB assignment cover-page.