CHAPTER 3

METHODOLOGY

3.1   Introduction

This chapter will cover about the methodology that will be used through this project. After considering the various matters in this project, the ADDIE model will be used as the methodology.

3.2   The ADDIE model- Instructional Design

The word "ADDIE" is stands for Analyze, Design, Develop, Implement, and Evaluate. The ADDIE model is an instructional Systems Design model that will guide the designer or developer through the process of developing effective educational courses and materials for the users.
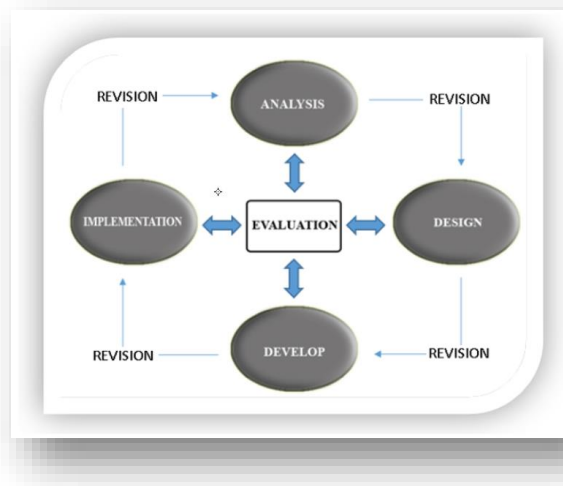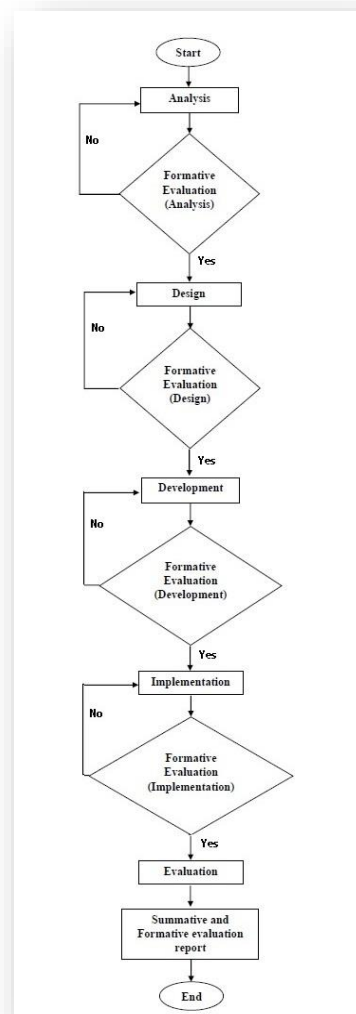
Figure 2.1: ADDIE model – Instructional Design

Figure 2.2: Flowchart of ADDIE model

3.2.1 Analysis Phase

The analysis phase is the first and the most important step in the process. This is the step where we gathered all the information needed through this project.

First of foremost, we identified the title which is 3D Interactive Courseware: Anatomy of Human Brain. This title is picked because of several problems that has been discovered. First, the people are still using traditional methods as their resources such as printed materials, power point slides, internet, mobile applications, educational software and multimedia courseware. Second, there are very limited ways to explore the human brain structure in details. Third, there are people who have a blood-phobia which is extremely afraid of blood, physical injury and others that related to it.

The target users for this 3D interactive courseware are any users either they are medical students, teachers, lecturers, or anyone who is seeking the information about human brain structure or all related issues to improvise their knowledge.

Besides, the objectives of this project is to study about human brain, develop educational courseware that includes 3D and test an effectiveness and functionality of the 3D interactive Courseware. This courseware will be contains the 3D model of human brain with labels, detailed view of its structures. It is also included the information on the interaction towards senses and every part of human brain; external and internal brain. Quiz related to human brain will be applied to test the understanding of the users.

Based on the analysis, there are no 3D Human Brain Anatomy courseware available which supports technology. Therefore, 3D interactive courseware that created would be a revolutionary technology in educating the users on human brain anatomy related knowledge.