CHAPTER 3

METHODOLOGY

3.1 INTRODUCTION

This chapter will discuss concerning the flow of method for developing the “Smart Homerity”. The methodology that has been chosen is V-Model. The actual V-model method represents a new software growth process as well as applicable to hardware development which can be considered an extension of the waterfall model. V-Model is based on association of any testing phase for each and every corresponding growth stage. This means that for each and every phase inside the development cycle there is a directly linked testing step. This is usually a highly self-disciplined model and next phase starts only immediately after completion of the previous step.

Under V-Model, the similar testing phase from the development stage is organized in parallel. So there are Verification phases on one side from the V along with Validation phases on the reverse side. Coding stage joins each side from the V-model. Below figure illustrates the different phases in V-Model of SDLC. (Rouse)
3.2 METHODOLOGY

This section will describe much detail about the stages related to V-model approach.

3.2.1 Verification Phases

Following are the Verification phases in V-Model that will be used for Smart Homerity development:
i. Requirement Analysis

This is the first stage in the advancement cycle where the item necessities are comprehended from the client viewpoint. This stage includes definite correspondence with the client to comprehend his desires and precise necessity. This is imperative movement and need to be overseen well, as the greater part of the clients is not certain about what precisely they require. The acceptance test design planning is done at this stage as business necessities can be utilized as a data for acceptance testing.

During this stage, I already set an appointment with my client in order to get their specific requirement about the developing Smart Homerity. I done interviewed with the client and provide some questions that related with the system. Mostly, client does not have free time to be interviewed, but as my plan is to set an exact time with the client so that client will aware of the booked time to discuss about the requirement. Problem statement, objective scope, chosen methodology, hardware and software tools also have been discuss during this phase.

For the next step, I will create context diagram of Smart Homerity. This is because it helps to quickly understand the system by determining the methods users will rely on it. Fundamentally, it becomes the capabilities from the system in the middle of the diagram by capturing the particular expectations that these users have than it. Below is the Context Diagram of Smart Homerity.

![Context Diagram of Smart Homerity](image-url)