AUTOMATED USER INTERFACE GENERATOR APPROACH FOR MOBILE APPLICATION DEVELOPMENT LOW CODE PLATFORMS

Sahan Thinusha Wijayananda

A dissertation submitted in partial fulfilment of the requirement for Bachelor of Engineering (Honours) degree in Software Engineering

Department of Computing

Informatics Institute of Technology, Sri Lanka
in collaboration with
University of Westminster, UK

2020

Abstract

These days the advances in mobile technology are necessary for the lifestyle of individuals. So, the popularity and usage of smartphones, tablets are increasing rapidly. At the same time The demand for mobile devices, mobile app development is highly increasing because of the smartphones are widely popular among the end-users. Developing a mobile application from scratch is a hard and time-consuming way. Mobile application development is challenging because of the mobile app development moving forward into the fragmentation rather than unification. Developers must undertake several decisions, including target platforms, development technology to utilize. Also, the app should be specifically designed to add value to the target audience.

Low-code/No-code is an application development approach which is done with visual development approach. Low code enables developers to develop an application from drag-and-drop components and model-driven logic through the graphical user interface. This approach facilitates no-technical personals, also having the capability to develop an app without writing code.

A user interface (UI) refers to which user and computer system interacting with each other by using commands or techniques to operate the system or app. So the app should be reflected in the way it looks, feels and functions, as well as in the content that's included there.

Keywords: Application Generation, Low-code platform, Mobile, UI generation, Application Development, Machine learning