**CHAPTER 1**

**INTRODUCTION**

* 1. **Introduction to Retrieving Student Exam Marksheet and JavaFX**

The main objective of the project is to provide the examination mark to the student in a simple way. This project is useful for students for getting the marks in simple manner. By a result analyzer with subject status and marks is an application tool for displaying the results in secure way. And the user has the privilege only to read. The whole result analyzer will be under the control of the administrator and the admin as the full privileges to read, write and execute the result. And admin gives the privileges to the Teacher to access the marksheet.

JavaFX is a software platform for creating and delivering desktop applications, as well as rich Internet application (RIAs) that can run across a wide variety of devices. JavaFX is intended to replace Swing as the standard GUI library for Java SE, but both will be include for the foreseeable future. JavaFX has support for desktop computers and web browsers on Microsoft Windows, Linux and macOS.

The initial version of JavaFX was developed as the ‘common profile’ i.e. it was developed to span across all JavaFX supporting devices. This significant feature helps the programmers to use a common programming paradigm while developing an application that is intended for both mobile devices and desktops. JavaFX having a ‘common profile’ model, share much of its codes, contents, graphics and assets between mobile devices and desktops.

JavaFX is designed to provide Java developers with a new lightweight, high performance graphics platform. The intention is for new applications to use JavaFX rather than Swing to build the application's graphical user interface (GUI). This does not mean that Swing is obsolete.

The Last number of applications in use that have been built using Swing mean that it will be part of the Java API for a long time yet. Especially as these applications can incorporate JavaFX functionality because the two graphical APIs run side by side seamlessly.JavaFX can be used to create graphical user interfaces for any platform

(e.g., desktop, web, mobile, etc..).