

## Online Java Editor with GUI Builder

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### Introduction

With the development of technology, developer needs to deliver the software product on time. Developers have less time to develop the system and test. Therefore they need to manage their time to do all the things at the given time. It is difficult for programmers to organize and work on projects in different locations, computers, and devices especially when the user stored code is on one computer in one place and they become tied down to a computer. As a result they need to self-running back to that machine each time and hit with coding inspiration.

If the user is working in different platform he needs to use different IDE's (Integrated Development Environment) that support for those Platforms. As an example, if user wants to program in java he needs to set up the Java environment in his machine. Programmers can change their codes without installing IDEs in geographically different places using this kind of web base IDEs. Nowadays there are a few Web-based IDEs which support to create only console applications and there are no tools available for creating Swing application. Therefore the proposed system facilitates for two main features. Those are, to create a Console application to support collaborative editing through application and to create a Swing application using web-based environment.

### Methodology

System was developed using java language and HTML5, CSS3, Java Script, JQuery have been used to create Web application. Moreover, for server side, we used apache tomcat server because it is integrated with the java API compiler which is easy to use for server side operation, compiling source codes and executing it (Goldman *et al.*, 2008). Ajax was used for the asynchronized server call from the client side and jQuery used for implementing drag and drop the component and sending Ajax request. The file handling was used for the creation of the code of component when request came from the client side. Figure 1 shows that how the system works.

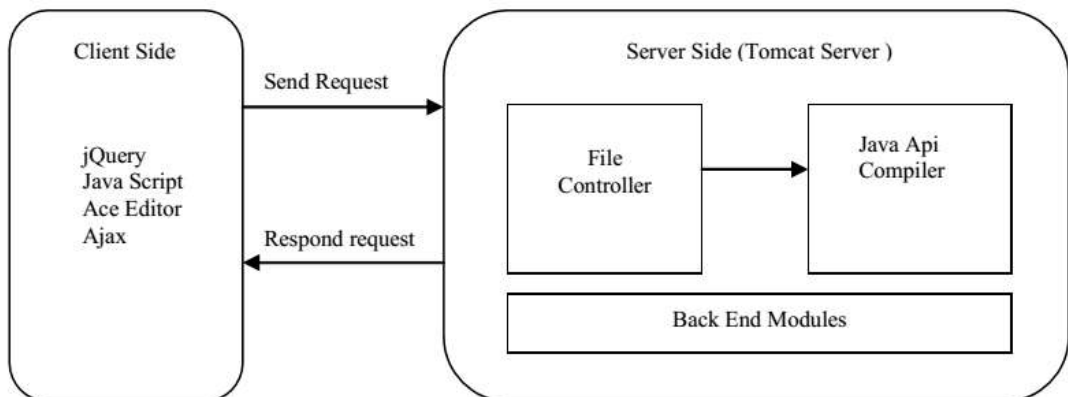


Figure 1. High-level overview of the server-side system.

### Result and Discussion

This application provides the capability of designing graphical user interfaces by dragging and dropping the components (Goldman , 2012) to the window form and then the user can arrange the components by using the mouse. Therefore it enables quick and easy development of graphical user interfaces with this web based system and also it provides to create console application and it supports for the collaborative editing.

### **Conclusion**

Web-based IDEs have changed the way programmers do business – at least those who have had the foresight to make the switch. By storing and editing code in the cloud, user could be able to do code better, faster, and more efficiently.

Web-based IDEs have changed the way of programming in business using new facilities like storing and editing code in the cloud. Then it may be better, faster and more efficient.

### **References**

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