



## Pcarchitec – Customizing and Virtually Seeing Your PC

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### ABSTRACT

This project is based on creating software where people can find everything to help them with custom-built computer from getting the products to getting a fully built computer at home and can find products at latest prices. It gives the user a user-friendly environment to get every information and products of their choice at single platform. In this program basic android app development is used to create the software and adobe illustrator to create the 3d visualization. This software shows the 3d visualization of the end product. The purpose of this project is to a user friendly platform for the custom-build computer which works from the product choosing till the full development of the custom-build computer.

### I. INTRODUCTION

Pre-built PCs are complete systems put together by well-known manufacturers using balanced and reliable hardware configurations. They are produced in quantity by some of the most trusted names in the PC space. These are usually available in local stores and are designed to be ready to use right out of the box. You can have someone else build it for you. Another option is to order your build from a company who specializes in building custom PCs. Custom-built gaming PCs offer a broader range of customization options than pre-built without requiring you to roll up your sleeves and build a PC yourself. You select the features and components you want, relying on a team of qualified technicians to build a PC to your specifications. But an online platform that can get all our work done at one place is not available. A person has to go multiple places to get all the required devices and another place to get their PC build.

### II. METHODOLOGY

This application is implemented via sublime text IDE platform or remix IDE (open-source IDE) to write smart contracts and deploy. With NodeJS (NPM packet manager) for backend development, for frontend we will use html and CSS for designing the layer of interaction for the voter and we will use react framework to make it more interactive and the other dependencies are Web3.js, Ganache, truffle, solidity and meta mask wallet.

1. The main application will be developed on android app development .i.e., java, node js, xml.
2. Web scraping will be used for displaying prices of components of PC .i.e., beautiful soup library of python will be used to collect data from different sites and putting them in excel sheet so that the least cost is being selected from excel sheet and it should be displayed.
3. 3d visualization of parts of computer will be done by adobe illustrator and node js.
4. Customization like engraving and coloring parts of computer will also be done by node js and adobe illustrator.

### III. RESULTS

This System is a program which helps customer get all the information on computer products and get well custom-built computer. This application uses web scrapping to get the products latest costs from different companies and also uses 3d Visualization techniques in order to give the visualization to the customer of the end piece of their custom-build computer. This application/ website is made through java ,android app development, node js . This System helps user get all the necessary updated information, new designs, new offers which helps user get their hands on a cost efficient product. The user can choose the products of their choice and can place an order on the web/app to get the built computer according to their needs.

### IV. Conclusion

This system is a program which helps customer get all the information on computer products and get a well custom-built computer. This application uses web scrapping to get the products latest costs from different companies and also uses 3d Visualization techniques in order to give the visualization

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