



**FINAL YEAR PROJECT REPORT**

# **ONLINE MARKETPLACE FOR BUYING AND SELLING OF PC HARDWARE**

**In fulfillment of the requirement  
For degree of  
BS (COMPUTER SCIENCES)**

**By**

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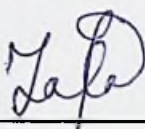
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**FALL-2023**

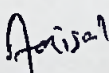
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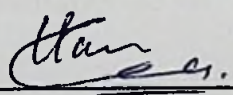
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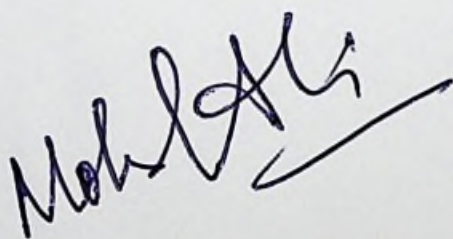
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### APPROVAL FOR SUBMISSION

We certify that this project report entitled **“ONLINE MARKETPLACE FOR BUYING AND SELLING OF PC HARDWARE”** was prepared by **TALAL IMRAN, MUHAMMAD FAISAL ZAMIR AND MUHAMMAD HAMZA** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of Science in Computer Science at Bahria University, Karachi.

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Specially dedicated to

My beloved grandmother, mother and father

Talal Imran

My beloved grandmother, mother and father

Muhammad Faisal Zamir

My beloved grandmother, mother and father

Muhammad Hamza

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## **ONLINE MARKETPLACE FOR BUYING AND SELLING OF PC HARDWARE**

### **ABSTRACT**

The objective of this project is to develop a website that serves as a dedicated marketplace for the buying and selling of PC Parts and other PC-related components. As there is a lack of websites solely dedicated to this purpose, this project is well poised to fill that cavity left in the Pakistani PC market. It will help new and experienced PC builders in surveying the market and building their PC systems with ease. The system is broken down into two major parts: The marketplace and the compatibility checker. The marketplace will serve as a place where users can upload PC items for sale. They can also survey the website for other products they might be interested in, leaving reviews if they buy a product and increasing their knowledge of the market. The second part of the website comprises the compatibility checker. This is a system built into the website that allows the user to enter a PC part present in the database and check whether it is compatible with another PC part for example a certain processor with a certain motherboard. The website also has a recommendation system that recommends products based on their compatibility and market price, allowing users to pick alternate products that can help them in building their PC. This website is built using React.js for its front end, Node.js for its back end, MongoDB for its database, and finally Python for the recommendation system.

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