# Mini Project Title

Submitted in partial fulfillment of the requirements of the degree

### BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

By

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**(AY 2020-21)**

# CERTIFICATE

This is to certify that the Mini Project entitled **“PC builder”** is a bonafide work of **Hriday Keswani (2003088), Viren Keswani (2003089), Atharva Kadam (2003075)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **“Bachelor of Engineering”** in **“Computer Engineering”.**

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Head of Department Principal

# Mini Project Approval

This Mini Project entitled “PC builder**”** by **Hriday Keswani (2003088), Viren Keswani (2003089), Atharva Kadam (2003075)** is approved for the degree of **Bachelor of Engineering** in **Computer Engineering.**

**Examiners**

**1………………………………………**

(Internal Examiner Name & Sign)

#### 2…………………………………………

(External Examiner name & Sign)

Date:

Place:

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# Acknowledgement

We would like to express our gratitude and thanks to **Prof. Manisha Dumbre** for her valuable guidance and help. We are indebted for her guidance and constant supervision as well as for providing necessary information regarding the project. We would like to express our greatest appreciation to our principal **Dr. G.T. Thampi** and head of the department **Dr. Tanuja Sarode** for their encouragement and tremendous support. We take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of the project.

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Viren Keswani

Atharva Kadam

# Chapter 1

### 1.1 Introduction

Our topic “PC Builder” is project aimed at first time PC builders in helping them with an all in one platform to remove the noise of overwhelming options and misinformation that a first time builder experiences.

### 1.2 Motivation

The Indian market for electronic components in general is not in the best condition for a consumer, when it comes to PC building a lot of consumers end up overspending on overpowered PCs assembled by third parties with unethical profit motives, the incompetent high pricing in the markets has become a major barrier for an average Indian to be able to buy one, due to this lack of personal computing power in an average Indian household the economy is missing on a new and highly lucrative market of digital goods and the simultaneously missing on the opportunity of producing equally attractive multi-bagging digital products and experiences.

### 1.3 Problem Statement & Objectives

Problem statement:

To make a website that helps people learn how to build PCs and search for cost effective builds.

Objectives:

- To improve technical know how on the consumer’s end.

- The project aims to provide cost effective and power effective builds to prevent the consumer from overspending

- To encourage independent decision making on the consumer end so that third parties cannot misinform them and overcharge them.

### 1.4 Organization of the Report

This report consists of three chapters. The first chapter deals with introduction of the topic, problem statement, motivation behind the topic and objectives. The second chapter is the Literature Survey. It includes all the research work done related to this topic. All information related to study of existing systems as well as learning of new tools is mentioned in this chapter. The third chapter is about the proposed system which is used in this project. The block diagram, techniques used, hardware and software used screenshots of the project are presented in this chapter. All the documents related to development of this project are mentioned in References

# Chapter 2

## Literature Survey

### 2.1 Survey of Existing System

Existing systems that help people build PCs are primarily offered as tools in several e-commerce websites to the likes of:

- NZXT

- MD Computers  
- ibuy-power

- pcpartpicker

Individual components can also be bought from several mainstream e-commerce websites like:

- Flipkart

- Amazon

- Snapdeal

### 2.2 Limitation of existing system

There are certain flaws in the existing system that if solved by existing entities will go against their business model. All existing products offering this are e-commerce stores.

Given their motives, by design a consumer gets products that are often over-prized or are beyond what the consumer requires, the existing systems do not keep the best interests of the end consumer in India’s PC markets. Major factors that have caused this unfair practice is lack of know how on the consumer end, taking advantage of high taxes levied on the components by the government as an excuse for overpricing their products.

### 2.3 Mini Project Contribution

Our project promotes independent decision making and spreads awareness on how to select components and providing working build configurations based on the user’s applications, so that the consumer can independently make decisions and not depend on a third party to make all the decisions.

We offer different cost effective configurations as well as an interact guide on how to go about building one’s own personal computer. We aim to bring change in the consumer behavior in order to compel the market forces to act in a competitive manner.

# Chapter 3

## Proposed System

This chapter consists of detailed description about the methodology used, the hardware and software components, the tools used and also the screenshots of the project

### Introduction

Write about the programming language, tools, technology that you have used.

### Architecture

Put the block diagram here and describe it

### Algorithm and Process Design

Write some few lines for each of the steps given below. Mention what you have done in each and every step.

1. Formulating the Problem statement:
2. Understanding the framework and requirements
3. Identifying tools/technology to be used
4. Finalizing the features to be included
5. Development
6. Testing
7. Evaluation

### Details of Hardware & Software

Mention the system configuration like RAM, Processor, Operating system. Also mention the software used.

### Results

Put screenshots and write one line about each of them.

### Conclusion and Future Work

Write conclusion and Future work in two different paragraphs.

### References

Format for references is given in this link: https://libguides.murdoch.edu.au/IEEE/all

Depending on what reference you are using, whether it is a video or any article from a website,you need to select that format from the given link

**Note:** For each reference you need to write the citation. Example: If any paragraph or sentence you are copying as it is from the internet then that needs to be cited. At the end of the statement write the citation number[1] then given full stop.

**Note:** Mention page numbers in bottom right corner of every page. Start the report from introduction. Make a separate document for the pages before introduction because they will be numbered in Roman Number. **Contents will be page i, abstract will be page ii, acknowledgements will be page iii, list of figures will be page iv**

No need for list of abbreviations, list of tables and list of symbols

**Note:** Try to write the whole report in your own words. Avoid copying from the internet.

**Note:** Font should be Times New Roman, Font size for headings will be 16, sub headings: 14, body: 12. Line spacing: 1.5