

**FOURIER DESCRIPTOR AND EDGE  
DETECTION FOR DETERMINING MOSQUE  
SHAPE ELEMENTS IN ASIA**

**FINAL YEAR PROJECT REPORT**

**Project report submitted in part fulfillment of the degree Bachelor of  
Computer Science (Hons) with supervision of my supervisor is  
PM Nurazzah bt Abd Rahman and coordinated by Dr Nasiroh bt Omar.**

**Faculty of Computer and Mathematical Sciences  
Universiti Teknologi MARA**

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# CHAPTER 1

## INTRODUCTION

The purpose of this chapter is to briefly view the project's general points of why develop an application for this project. By applying all the steps required, we can easily determine the problem that we have to focus on and not to mistakenly redo what have been done by other people's project.

From the information given on this chapter, the objectives of the research project thus the scope and its significance will give a clear and understanding view in order to implement the research project.

### 1.1 Research Background

Before we fully understand what image retrieval does, we need to understand how it is formed. Image is defined by Dictionary (2009) as a physical likeness or representation of a person, animal, or thing, photographed, painted, sculptured, or otherwise made visible.

Image retrieval has become the most interesting area in computer science field, especially in research and development. One of the image retrieval criteria is shape-based retrieval. The image is detected by its shape. The shape image can be determine by applying edge detection method to the image itself, we can modify it anyway we want, either rotation or scaling.

Image itself carries a whole lot of factor such as how does it formed, where does it came from, how can we contain an image in a computer. These are all the fundamental questions when we are dealing with images. The process of image is another thing that we have to concentrate in. Like in what kind of file type extension is suitable for a specific project. Without us realizing, internet has been depending on images (recently) for explaining the purpose of a website.

## **Approval**

This proposal is accepted to be pursued under my supervision.

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**Associated Prof. Nurazzah Abdul Rahman**

**Supervisor**

**Computer Science Department**

**Faculty of Computer Science and Mathematics**

**University Technology MARA**

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