

HIGHER TECHNICAL INSTITUTE

DIPLOMA PROJECT

**GEOGRAPHICAL INFORMATION SYSTEM
FOR A
MUNICIPALITY**

CS/185

SYSTEMS ANALYSIS AND DESIGN

Designed and Implemented by :

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Introduction

Our team was assigned to develop a system, which is directly related to a municipality and all services that the municipality is providing. Actually we were assigned to develop a Geographical Information System (GIS) for a municipality.

The major scope of our project is to make an investigation and uncover all the information needs of the users, which are involved in the services provided by the municipality. The development of this GIS will be achieved with the use of the MapInfo and MapBasic package. Through the GIS system the user will be able to achieve visualization of all the information collected on the maps of the municipality. Due to all that graphical information produced and presented by the Geographical Information System it is easily understandable that services provided up to now will improve and increase. The GIS will be helpful for the users to make decisions based on the graphical information presented such decisions will relate to the future plans of the municipality.

A secondary scope of our project is to investigate the package of MapInfo and MapBasic. Within the implementation of the Geographical Information System for the municipality an evaluation is to be provided and advantages and disadvantages will be identified.

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