The traffic system is the arterial route of the economy and the society for any country. For the economic and social components development, building traffic system is a prerequisite. The operation, maintenance and exploitation it effectively is more important. Therefore, must to have a really effective solution for traffic management.

Recent years, in the world, Geographic Information Systems - GIS has been applied successfully in many fields that need to manage the object with geospatial properties. That means objects that are distributed in somewhere on the earth's surface. They are identified by geographic coordinates on the surface of the earth. Thus, the GIS research and development on traffic infrastructure is necessary, because the traffic infrastructure is also had geospatial properties. GIS system will provide to managers and administrators overall information on the current state of traffic infrastructure associated with geographic location. While, by other methods such as tables, graphs, diagrams or paper maps to manage and operate traffic infrastructure will have many different limitations.

This thesis topic will focus on researching and building a geographic information system for the management of the road traffic system of Can Tho city.

Content of thesis are presented in four chapters:

Chapter 1: Overview. Introduce the problem need to be solved and the range of topics. At the same time making plans and implementation methods.

Chapter 2: Theoretical Foundations. Presentation on Geographic Information Systems GIS; Introduction to open standard OpenGIS; Learn how to build WebGIS with open source technologies such as: GeoServer, PostgreSQL + PostGIS, OpenLayers.

Chapter 3: Content and Implementation Results. Requirements specification, analysis GIS systems "The Road Traffic Management Can Tho city" and design WebGIS.

Chapter 4: Conclusions and Direction Development. Presenting the results as well as the difficulty and limitation in the implementation process. At the same time showing the direction development.