Abstract

The purpose of this thesis is to build an interactive bi-lingual GIS tool showing the arrival of different civilizations into Canada before and after colonization. The tool will mainly facilitate a teaching course in western hemisphere civilization, enabling the students to get an introduction to the evolution of French culture through the course of time. A number of tribes are explained as a part of this project. The tribes are shown on a map of Canada showing the major population of a specific tribe, upon clicking on the point through hotlink more information about the tribe can be viewed. Further the migration of a tribe from one location to another is demonstrated on the world map. The tool implements interactive maps that show the migration of different tribes from one region to another. The tool implements Java, MOJO files, ESRI shapefiles, HTML5, CSS and javascript and jquery for development purpose. The map on the tool is created by feeding a spreadsheet into the tool. This would enable the users to go through the Canadian tribes and to use basic features provided by MOJO applications. The HTML pages explaining the information about the tribes have been developed using Javascript for a better user experience and ease of use. For implementing the bi-lingual functionality has been incorporated using the java resource bundle class. The tool uses a resource bundle in English and another resource bundle in French, as French is the second language of Canada.

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