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MS Computer Science
THESIS DEFENSE

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World's Disputed Territories Using ArcGIS for Android

Abstract

ArcGIS is a geographic information system for creating maps, analyzing mapped information, and management of geographic information in a database. ArcGIS SDK for Android is a powerful platform which lets us to build native applications in Android, integrate a wide range of mapping and GIS capabilities online or offline, including editing, geocoding, routing, and data visualization. ArcGIS is a product of ESRI that aids in creating and developing location based mapping applications.

The aim of this project is to build an interactive ArcGIS tool using Android, which gives an outlook of the world's disputed territories. This tool helps in achieving a better understanding of the world's political standing and its territorial disputes. Major recognized territorial disputes are listed in the form of a drawer menu in Android, which when clicked displays the web map of that particular disputed area. Each mapped layout contains an info button which guides the user through the selection, with hyperlinks to webpages for further information.

The tool was developed in Android using ArcGIS libraries, sourced from 'ArcGIS for developers' website. Web maps in each layout were created from the ArcGIS developers web tool for creating and sharing web based maps. Each web map is sourced into the respective layouts using URLs (universal resource locators) and user permissions. The tool was built for educational purposes and hence its features are restricted in complexity, for easier understanding.

Thesis Committee

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