

Abstract: In modern days, programmers rarely start a project from scratch. Instead, they make use of open source codes written by developers around the globe, which can save time and energy, especially when developing component-based, object-oriented software. With the widespread and adoption of Web 2.0 concepts and techniques, developers from different countries are encouraged to collaborate in open source projects, where they can utilize each other's codes, not only for public projects, but for personal projects as well. This paper addresses an entity-based interactive code search engine called iCodeSearch that helps developers find open source codes and examples on the internet. While some search engines like Google Codesearch are build upon full-text indexes and don't support user interactions with search results, iCodeSearch gives users the freedom to vote or tag results, which will help produce more accurate and customized feedback for later queries. Configurable sorting options are also supported; users can customize what metrics to use when sorting results.