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Housing query system based on integrated online lease information in Waterloo area

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The application architecture can be roughly divided into three separated parts: a data collection system, a frontend website which let users to query housing data, and a backend web server with database as a middleware, connecting the previous ones together. Therefore, we expect this application to have great heterogeneity and scalability regarding non-functional properties.

4.1 Heterogeneity

In our team we have different people who are experienced in web spider, data retrieving and analyzing, server building and frontend delivering respectively. Also, different programming languages/techniques are involved in this single project. Under this circumstance, we especially care about the heterogeneity of the solution. Besides the advantage of easy-to-test and potential of modularization, adequate heterogeneity in this architecture allows us to do the job in a parallel way.

4.2 Scalability

In the long term plan we

5. Architecture

6. Software and Hardware Requirement