**COMP4321 - Search Engine for Web and Enterprise data**

**Team Project Phase 1**

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**1. RocksDB Schema:**

\* URL\_DB\_NAME - Web url: *String* ***to*** Web id: *Int* database

\* URL\_INFO\_DB\_NAME - Web id: *Int* ***to*** (Title: *String*, Date-Modified: *Long*, Size: *Int*)

\* URL\_CHILD\_DB\_NAME - Web id: *Int* ***to*** List(Child Web id: *Int*)

\* WORD\_DB\_NAME - Word: *String* ***to*** Word id: *Int* database

\* SPIDER\_DB\_NAME - Word id: *Int* ***to*** List(Web id: *Int*, Word Location: *Int*)) database

**2. Programming Language**

Kotlin - a cross-platform, statically typed, general-purpose programming language with type inference. It is designed to interoperate fully with Java, and the JVM version of its standard library depends on the Java Class Library, but type inference allows its syntax to be more concise.