## Milestone 3

## **Design Decisions:**

## **Supported Constructs**

We support the "foreach" operation over the "patient" filter - we can do filtering and can generate code. Right now, adding another filter apart from Patient will result in an error. Currently, we only allow the printing of a patient's fields, as determined by the user determined filter.

We have decided to generate JavaScript. For each .onc file, we generate a .js file, generate SQL queries and execute using the excellent <a href="mailto:npm MySQL package">npm MySQL package</a>. Note that we are not using the toy database - instead, we are executing queries directly against the MySQL server running on <a href="mailto:higher-mailto:hi

Additionally, we also provided an auxiliary config file, *database.conf*, to allow a user to map filters and fields allowed by the OncoTime language (which users also define in their config file) to column names in their particular database. For example, the field "id" within patient can be mapped to the key "PatientSerNum" within the database. The reasoning behind this auxiliary file is the same behind *config.conf*: We want to make our OncoTime compiler, which we have taken to calling The Dragon OncoTime Compiler (The DOC for short), as adaptable as possible.