

Relational
Schema:

```
CREATE TABLE Owner (  
    name VARCHAR(50),  
    addr VARCHAR(200)  
);  
  
CREATE TABLE ip (  
    url VARCHAR(200) PRIMARY KEY,  
    title VARCHAR(200)  
);  
  
CREATE TABLE patent (  
    url VARCHAR(200) PRIMARY KEY,  
    appNum INT,  
    patentNum INT,  
    filingDate DATE,  
    issueDate DATE,  
    abstract VARCHAR(1000),  
    FOREIGN KEY(url) REFERENCES ip  
);  
  
CREATE TABLE trademark (  
    url VARCHAR(200) PRIMARY KEY,  
    serialNum INT,  
    status CHAR(4),  
    filingDate DATE,  
    FOREIGN KEY(url) REFERENCES ip  
);  
  
CREATE TABLE copyright (  
    url VARCHAR(200) PRIMARY KEY,  
    registrationNum INT,  
    publicationDate DATE,  
    registrationDate DATE,  
    type VARCHAR(100),  
    FOREIGN KEY(url) REFERENCES ip  
);
```

```

CREATE TABLE License (
    licensee VARCHAR(100),
    url VARCHAR(100),
    startDate DATE,
    endDate DATE,
    payment REAL,
    PRIMARY KEY(url, licensee),
    FOREIGN KEY(url) REFERENCES ip
);

```

Division of Labor:

The DBMS we will use is mySQL. Our language of choice will be C++.

Intellectual property and owner data will be scraped from the USPTO and the US Copyright Office government websites. Sample license information will be generated by ourselves.

Division of Labor

Riley - Web application

Alexy - Web scraping

Matt - SQL

Plan of Action (Schedule of Dates) :

10/22/2018 - Relational Schema Creation, Refinement

10/29/2018 - Implement Relational Schema

11/5/2018 - Populating Database

11/12/2018 - Web App Creation

11/19/2018 - Linkage of Database with Web App

11/26/2018 - Complex Function Creation

12/3/2018 - Project Done

12/10/2018 - Celebration of Completion