**Task List**

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|  |  | INFRASTRUCTURE |
| Done | Cheryl | Set up docker-compose.yml for 3 docker shells: webui, MySQL, fhircxn |
| Done | Team | Settle on architecture and technologies to use. |
| Done | Cheryl | Set up Jenkins file to deploy to HDAP and run hello world app |
| Done | Cheryl | Push skeletal directory structure to git for shared development |
| Done | Team | Develop working application framework for one disease. |
|  |  | WEBUI |
| Done | Marcos | Create base html template for web page |
| Done | Andy | CSS styling and JavaScript behaviors for web page |
| Done | Andy | Identify list of behaviors for web page |
| Done | Andy | 3D Graphics (three.js) and web UI   * Initial patient load * Select patient: load disease model and educational material * Select topic and adjust material displayed * Action (slider, etc) -> changes disease model |
| Done | Jennifer | Write python code to query patient and disease information from MySQL, insert into Flask/Jinja2 Template in a generic way |
| Done | Andy | Work out interaction between 3D image and action bar (slider, other control) |
| Done | Jennifer | Create enough 3D images to show gradual change from normal to messed up so slider thing can work for disease: Fatty Liver disease |
| Done | Cheryl | Create enough 3D images to show gradual change from normal to messed up so slider thing can work for disease: Cirrhosis |
| Done | Rafay | Create enough 3D images to show gradual change from normal to messed up so slider thing can work for disease: Liver Cancer |
| Done | Andy | Create enough 3D images to show gradual change from normal to messed up so slider thing can work for disease: Benign Liver Tumors |
| Done | Marcos | Create enough 3D images to show gradual change from normal to messed up so slider thing can work for disease: Polycystic Liver Disease |
| Deferred | Rafay/Andy | Label parts on Liver in 3D images |
| Done | Andy | Convert and edit 3D files for consistency and compatibility with three.js |
| Done | Jennifer, Cheryl | Develop Flask, web page, and DB integration. |
| Done | Jennifer, Rafay, Marcos | Develop educational materials for loading into database. |
| Done | Team | Develop and integrate 3+ additional disease models. |
|  |  | FHIR connector (fhircxn) |
| Done | Rafay,  Marcos | Decide on FHIR server to use (based on offerings from HDAP doc) or create one. Find one with a patient for each of all of the 25 liver conditions. Get SNOMED codes and patient IDs. create pre-canned patient id list in patient.sql file per schema.  <Complete: decided to do our own FHIR server instead of using an existing one> |
| Done | Marcos | Create JSON files containing each patient. JSON files to be fed into the FHIR server image so it’s available on preload. |
| Done | Marcos | Write code to query database for pre-canned patient id list. For each patient, query FHIR server and get information (name, symptoms, etc) |
| Done | Marcos | Write code to take patient list information and populate patient, patient disease tables in MySQL. |
| Done | Cheryl | Stand up FHIR server if needed with patient information preloaded. |
| Done | Rafay | Develop patient data FHIR JSON files for patients. |
| Done | Cheryl | Develop FHIR server data loading automation. |
|  |  | MySQL |
| Done | Jennifer, Cheryl | Create schema for database and tables |
| Done | Jennifer | Create snomedXXXXX data file for data for Fatty Liver Disease. Complete thorough research on what to put into the fields. Put all data/csv/sql files into the MySQL directory. |
| Done | Cheryl | Create snomedXXXXX data file for data for Cirrohsis. Complete thorough research on what to put into the fields. Put all data/csv/sql files into the MySQL directory. |
| Done | Jennifer/Marco/Andy/Rafay/Cheryl | Create snomedXXXXX data file for data. Complete thorough research on what to put into the fields. Put all data/csv/sql files into the MySQL directory. |
| Done | Jennifer | Update dockerfile to create DB and tables and import \*.sql files |
| Done | Jennifer, Cheryl | Develop database loading automation. |