Task List

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|  |  | INFRASTRUCTURE |
|  | Cheryl | Set up docker-compose.yml for 3 docker shells: webui, mysql, fhircxn |
| done | Team | Settle on architecture and technologies to use. |
|  | 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 |
|  | Team | Develop working application framework for one disease. |
|  |  | WEBUI |
| done | Rafay | Create base/main html template for web page |
|  | Rafay | CSS styling and javascript behaviors for web page |
|  | Andy | Identify list of behaviors for web page |
|  | Rafay/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 |
|  | Jennifer | Write python code to query patient and disease information from mysql, insert into flask/jinja Template in a generic way |
|  | Rafay/Andy | Work out interaction between 3d image and action bar (slider, other control) |
|  | Jennifer | Create enough 3d images to show gradual change from normal to messed up so slider thing can work for disease: Fatty Liver disease |
|  | Cheryl | Create enough 3d images to show gradual change from normal to messed up so slider thing can work for disease: Cirrhosis |
|  | Rafay | Create enough 3d images to show gradual change from normal to messed up so slider thing can work for disease: Liver Cancer |
|  | Andy | Create enough 3d images to show gradual change from normal to messed up so slider thing can work for disease: Benign Liver Tumors |
|  | Marcos | Create enough 3d images to show gradual change from normal to messed up so slider thing can work for disease: Polycystic Liver Disease |
|  | Rafay/Andy | Label parts on Liver in 3d images |
|  | Jennifer, Cheryl | Develop Flask, web page, and db integration. |
|  | Andy, Jennifer, Rafay, Marcos | Develop educational materials for loading into database. |
|  | 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> |
|  | Marcos | Create JSON files containing each patient. JSON files to be fed into the FHIR server image so it’s available on preload. |
|  | Marcos | Write code to query database for pre-canned patient id list. For each patient, query fhir server and get information (name, symptoms, etc) |
|  | Marcos | Write code to take patient list information and populate patient, patient disease tables in mysql. |
|  | Cheryl | Stand up FHIR server if needed with patient information preloaded. |
|  | Rafay | Develop patient data FHIR json files for patients. |
|  | Cheryl | Develop FHIR server data loading automation. |
|  |  | MySql |
|  | Jennifer/ Cheryl | Create schema for database and tables |
|  | 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. |
|  | 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. |
|  | 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. |
|  | Jennifer | (and one for each of rest of diseases) |
|  | Jennifer | Update dockerfile to create db and tables and import \*.sql files |
|  | Jennifer, Cheryl | Develop database loading automation. |