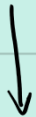


Course work

Brief Analysis and breakdown.

→ Overall analysis of the system dynamics.
→ Generally how websites interact.



Break it down to each webpage.

→ Produce functional and non-functional requirements.

Priority!

Need to have 3 levels of control:

- Admin → Ultimate Control
- Scientists
 - ↳ Junior
 - ↳ Assess everything, make sure everything is working correctly
 - ↳ Senior
 - ↳ Can access earthquake data & observatory catalogues
 - ↳ digitally manage their team

- Guests → Can make account to log into shop and see what they've purchased previously
⇒ Can't see core functionality
- Can make a shop purchase without logging in (creating account)

Earthquake & observatory catalog

- Logging a record of an observatory → name, date est., latitude, longitude
- Recording of earthquakes (historical & new) EC-3.9-Belgium-05467
 - earthquake
 - time
 - mag
 - country

(Observatories have earthquakes logged within them.)

- Can look up historical earthquake and observatory info
(do all things in blue)
- General purpose UI that allows earthquakes & observatories to be viewed (filtering & search option)

Sample return

Geological artifacts, such as solidified lava, foreign debris.

Artifact → identification & associated earthquake, type of artifact,
Unique number

ash sample / solidified lava
required?

Bulk sample return

full or half pallet of artifacts:

↳ identification, artifacts

also logged individually

Observatory

| unique_id | name | est_date | latitude | longitude |
|-----------|------|----------|----------|-----------|
| | | | | |

Earthquake

Table Analysis

Users

- Primary key = User ID → Primary key
 - Email Address → For logging in
 - Salted Password.
 - User type → Clearance level.
 - Name
 - Address
 - Phone number
-

Observatories

- Observatory ID → Unique key
- Name
- Establishment date.
- latitude.
- Longitude.

Earthquakes

- Unique ID (5-digits) → Primary key
 - Country
 - Magnitude
 - Type (tectonic/collapse).
 - Date
 - Time.
 - latitude
 - longitude.
 - Observatory ID. → Foreign Key.
-

Antiquarks:

- Antiquark ID → Primary key
- Earthquake ID → foreign key
- Pallet ID → foreign key.
- Type.
- Lagging live stamp.
- Location in long term storage.
- Needed

Bulk Item note:

- Pallet ID → Primary key.
 - Pallet size (half / full)
 - Date of arrival.
-

Stock list:

- Product ID
- Antiquark ID
- Price (€)
- Availability

Antiquary Collection:

- Collection ID → Primary key.
- Product ID → Foreign
- User ID → Foreign.
- Date of Expiry.

Previous Orders

| | | |
|---------|----|---------------------|
| Antique | ID | → Order ID |
| copy | | + → Date collected. |
| | | → Price sold. |