do we need to store the exact address of users? What data should we store upon registration?

Exact address or coordinates will be needed, (address converted to coordinates after registration and then inserted into the database) to have some form of geolocation stored. Will be needed for filtering nearby reports.

What are the tasks and privileges of an emergency response manager on the platform? We currently have:
- assign georeferenced tasks to emergency response agents (including being able to promote a user or even unregistered person to a emergency response agent)
- reviewing/verify reports and being able to delete them
- being able to communicate with a registered user who filed a report
are there more?

There needs to be some sort of clever ordering or filtering mechanism, also they need to be able to edit the status, it was mentioned that emergency response agents can only advance a task – emergency response agents can also be assigned to different reports and they need to have some sort of view for them, so they can see a to do list -

Are emergency response managers assigned to reports or can they assign themselves?

Managers are not really assigned to tasks, they can subscribe to more than one report and it is also possible that for one report more than one emergency response manager can be subscribers – user who files a report is automatically a subscriber

Managers should have a certain page like for example “My Tasks” where they can see the reports they are subscribed to

Ticket system in general for reports can be a possible solution, if you change something in a task you are automatically a subscriber but there should be an option to unsubscribe

Task for a report should not be able to be created without a person assigned to it

Can they look at details (which agents are assigned) of other reports or even delete them, which they are not responsible for?

Yes

What should emergency response mangers be able to see on the map? Every layer?

Yes

Would an upvote/downvote system be enough for peer review? – How should this peer review function look like? In what way should the geolocation part of this feature be implemented? - Current location or location you entered by login?

Two axis needed, one is credibility and other is severity. User can rate severity on a scale e.g. on 1 to 5 and 5 being high severity. Credibility is just binary, so either credible or potentially incredible report.

Is an internal chat system needed for the communication between e.g. emergency managers and users who filed a report?

Every report should have a thread – like you can see in social media for example. So an area where messages can be sent and users who are subscribed to a thread can see the messages, except for emergency response managers, they should be able to see the messages from every thread.

Indicator on profile for user – like “unread messages” which redirects them to the thread of this report

Visualizations

For what visualizations are color coded zones needed? Only HQ30 and HQ100 and maybe all time high?

There can be color coding, but it is static for the historical data, so it does not change the color, but for the critical areas there can be color codes

HQ30,100 flooding area – if an HQ30 event happens, this area will be affected by flooding

HQ30, 100 surface water level – in an HQ30 event; once every 30, 100 years these are surface water level areas which can have dynamic color coding zones, so that an area depending on the water level can change – look if HQ30, HQ100 Water level info is available – look on the data and see what could be meaningful, color should be changed already if there is a high water level but not already on HQ30 level – look for examples, was hard to explain for him without having examples at hand

How should the charts in the visualizations look like? – Where do we need charts?

Visualization of critical areas (e.g. HQ30)
Visualization of historical data (chart, statistical values: e.g. HQ30, HQ100, all-time high)

See above, charts could be accessed as additional button from the current water level pin, make sure to have some form of additional information that helps the user to understand the difference between current water level and the statistics you will be showing them

What should an unregistered user be able to see on the map? What is the difference between normal user and emergency response agent in terms of functionality?

Historical Data is not really relevant in the emergency response scenario, but historical data can be connected to the surface water level map pins as a separate option, for historical data you should be able to see relevant data from the start – like the current water level and the min, max and median or 3rd quartile and then a chart with time on the x-axis and the value on the y-axis