Launching a Minimum Viable Product

A Project in Conjunction with the Center for Disease Control & Prevention

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This project was also powered by a technical & management team that functions under Udacity & Thoughtworks

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Minimum Viable Product Plan Vision & Justifications

# Product Vision

*Instructions: Create a vision for the product. The vision should include the intended target market or population and the outcome you are attempting to achieve.*

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| **Product Vision** | **To enable users all globally to get real-time updates about virus-cases, deaths and have proximity mapping activated. All real-time updates can be accessed via mobile phones (Apple & Android) and also via website.** |

# Product Roadmap Justifications

*Instructions: After creating the product roadmap, choose 1 feature in each phase and provide a simple justification for placing that feature into the phase that you put it in.*

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| **Phase** | **Feature** | **Justification** |
| 1 | Initial Architecture/Database Setup & Design | **Data has always been a very strong foundation for almost every product & service that involves digital presence. I have always given importance to databases because this is the part where ALL OUR DATA would be stored.   This is where we query, analyze and do all advanced forms of analytics. Putting this at Phase 1 would also gauge the amount of data load that can be handled by our system.** |
| 2 | Develop iOS Compatible Mobile App | **Although I do believe that having both i-OS & android compatible apps are highly vital to our project, there are other aspects of the service that deserves more ‘engineering priority’ at first.** |
| 3 | Export CSV of Reported Data | **Data gathered & processed is based on how robust both the back end database is and also reliability & security of both app & web portal. Therefore exporting of CSV is just proper to be on phase 3.** |
| 4 | Customizable/Interactive Dashboard with heatmaps, bar charts, and zooming capabilities | **Dashboards do contain all the valuable information that are needed by users. The basic dashboard display with heatmaps is an ‘initial introduction’ of the user to our system.**  **The over-all ‘manipulation’ and ‘customizing’ of dashboard is certainly not the top most priority.** |

# MVP User Story Justification

*Instructions: Pick one user story in the MVP and justify why that user story belongs in the MVP. Then pick one user story that is* ***not*** *in the MVP and justify why that user story doesn’t belong in the MVP.*

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| **Included in MVP** | **User Story** | **Justification for Including or not including the user story in the MVP Plan.** |
| Yes | As a CDC Official I can view the number of patients that have reported testing positive so that so that I can analyze the outbreak . | **A CDC Official needs to have a near real -time overview of the entire situation. CDC Officials are usually responsible in relaying the latest updates & counts on cases, deaths and recoveries.**  **The media outlets and some members of political groups rely on the information that they give.**  **For the purpose of our project, they rely heavily on our product to decide regarding issues of funding & test kits.** |
| No | As a patient I can customize all majority if the dashboard details so that it would give me a better picture of both my health condition's update and the global pandemic's metrics | **Although patients are given a very high level of importance, they usually decision making processes usually have an impact on their personal lives and on their immediate circle i.e. family, co-workers (if they’re a non-remote worker).**  **Another reason is that the ‘customizability’ or flexibility of any dashboard usually does not come right away as a top priority. Just like any other dashboarding / data viz/ BI tool, it undergoes several changes.**  **These 2 are the main reasons why this User\_story is not part of the MVP.** |

# Sprint Scenario Responses

*Instructions: After completing the Release and MVP Plan, provide a simple explanation for adjustments that the team would likely take given the different unexpected sprint interruptions provided below.*

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| **Sprint** | **Scenario** | **Response** |
| 1 | One of the user stories has a dependency on another system that won't be available until the next sprint. What should the team do about this user story? | **The best decision is to put this user story ‘on hold’ and focus on the next most important user story. If there is a possibility that the technical team involves developers, cloud architects, system admins, UX, etc and they could create a ‘simulation’ or a ‘softer’ version of the other system, then I would suggest to continue.**  **But more likely I would put the user story on the next sprint and focus on the next; highest priority.**  **This is what Agile is all about: Flexibility & adaptability.** |
| 3 | A software engineer is sick and will miss most of the sprint. What should you and the team do to account for their absence? | **This could be a case by case basis. If an engineer’s ‘sickness’ is not so severe and would still allow him/her to do some minor coding, then the developer would be given all the option to work from home on a part time or limited.**  **The possibility of the above scenario is slim.**  **A more realistic solution would be 1 of the 3:**   1. **User another software engineer in the team that is just as capable and is also very familiar with the ongoing project. This means a developer who’s very adept at analyzing the entire sprint process;** 2. **Focus on the next most important user story where the skills of the software engineer is not playing avital role;** 3. **If the Software Development Lifecyle (SDLC) is still at the early stages. I would suggest to possibly hire a part time developer on a contractual basis. Of course, there will be certain types of tests to justify that the temporary developer has the same level of coding skills as the coder on leave. He/she would also be asked to sign the usual waivers regarding confidentiality, etc.** |