

# IBM PROBLEM STATEMENT

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| Who does the problem affect? | COVID-19 has turned the world upside down. Everything has been impacted. How we live and interact with each other, how we work and communicate, how we move around and travel. Every aspect of our lives has been affected.   |
| What is the issue?           | The World Health Organization has declared the outbreak of the novel coronavirus, COVID-19 as pandemic across the world. With its alarming surge of affected cases throughout the world, lockdown and awareness (social distancing, use of masks etc) among people are found to be the only means for restricting the community transmission. |
| When does the issue occur?   | Recently, several containment zones had been identified throughout the country and divided into red, orange and green zones, respectively. The red zones indicate the infection hotspots, orange zones denote some infection and green zones indicate an area with no infection   |
| Where is the issue coming?   | In a densely populated country like India, it is very difficult to prevent the community transmission even during lockdown without social   |

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|  | awareness and precautionary measures taken by the people.   |
| Why is it important that we fix the problem? | Currently there are several research works undergoing to prevent COVID-19. In this paper, we mainly focus on developing an android based application to identify the COVID-19 containment zone in India. We have used Geofencing and Firebase APIs (Application Program Interface) from Google as the base for development of this application. |