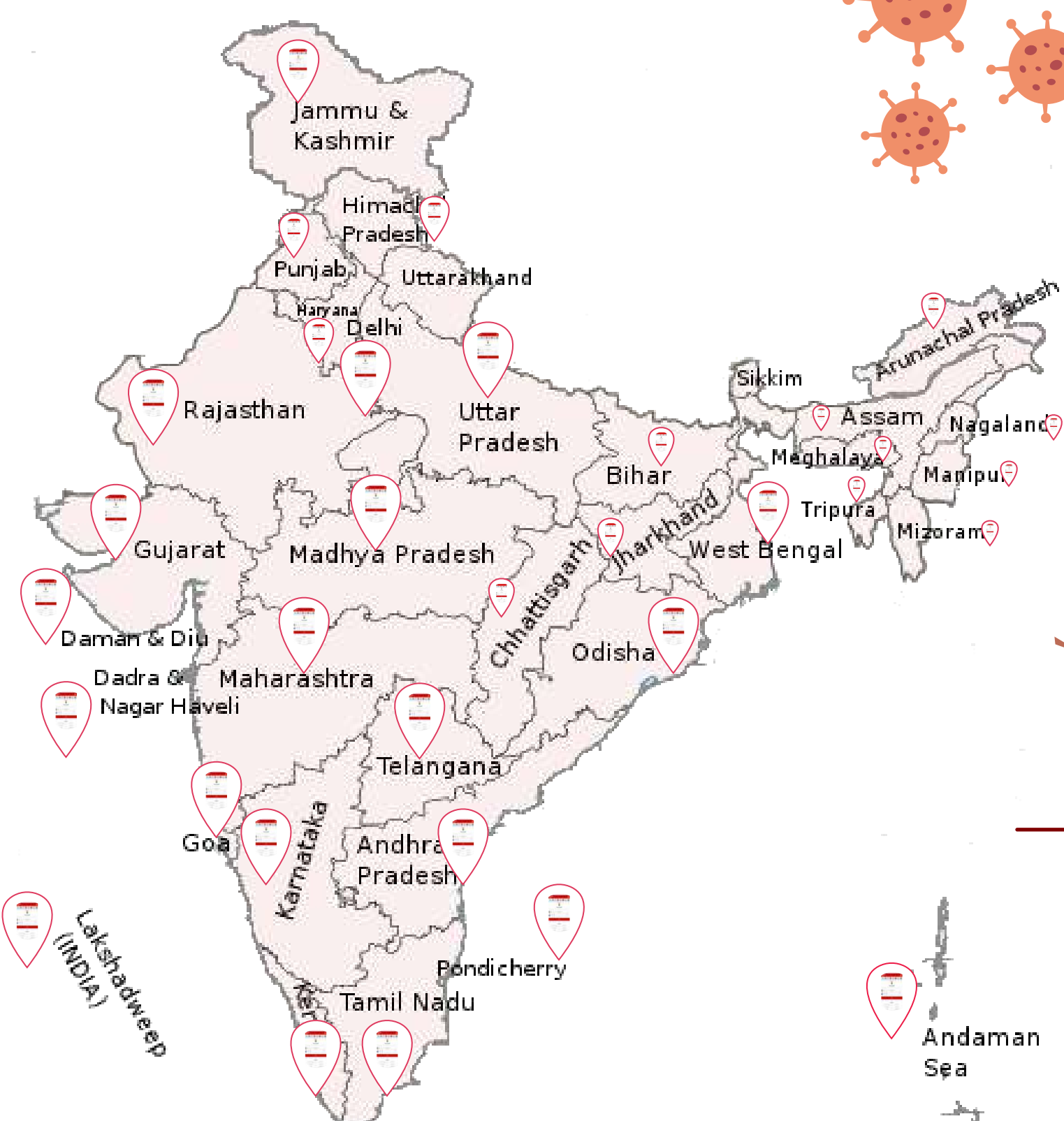


COVID-19 NATIONAL BIO INFORMATICS ONLINE HACKATHON FOR FULL STACKERS

covid19hackathon.in

REGISTER BY 26th APRIL, 2020 | HACKATHON 27th APRIL- 6th MAY, 2020

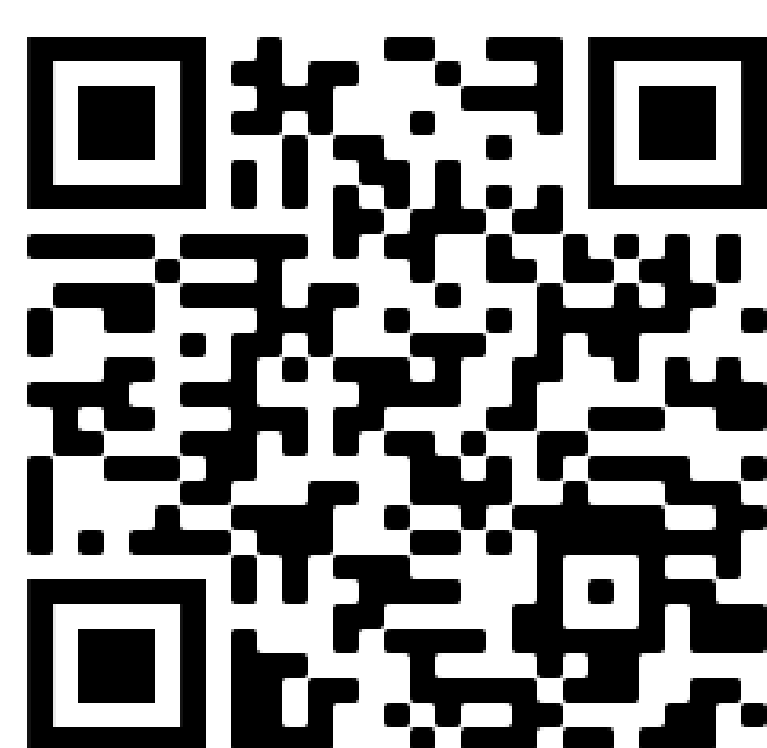
Challenging Full Stackers to build community health Information system Apps & mobile responsive web for Indian states.



CASH PRIZES & AWARDS FOR BEST NATIONAL & STATE FULL STACKERS

OPEN TO FULL STACK DEVELOPERS | STUDENTS | ICT FACULTIES | ICT PROFESSIONALS | STARTUPS

Scan to Register



<https://forms.gle/RavLXG9W2q347829>

ELIGIBILITY

All students & faculties of Computer Science, Polytechnics, ICT, Engineering institutes, Arts & Science Colleges, startups, & all IT full stackers strong in app and mobile responsive web development within the tech stack limits.

TEAM SIZE & COMPOSITION

One full stacker with good knowledge in Android studio app development and ability to publish in Google Play store & online. He/she can avail support from other students, IT professionals and faculties to complete the task.

WINNING GUIDELINES

Release APK and mobile responsive web must be submitted for publishing in our Google Play store and web hosted. The modules developed must work smoothly. The apps will be published and web will be hosted for updation during the first/second and final round.

ADDITIONAL GUIDELINES

- Full stackers can use open source codes from GitHub, Stack Overflow and other sources with acknowledgement.
- Must use APIs of Google Maps, calendar, Youtube, open data and other.
- Ensure app meets all the Google play store publishing guidelines.
- App must work in Android smart phones with version 7 – 9.
- The Android X version with material design will be highly preferred.
- Open source native fonts & icon is highly recommended.

TECH STACK LIMIT

App & mobile responsive web must be developed using



TECH SUPPORT FROM THE ORGANIZERS

- Apps will be published in organizers google playstore for evaluation.
- Mobile responsive web will hosted in organizers or free domain and cloud servers.
- Limited tech support shall be provided for shortlisted second & third publishable app and web versions.

DISASTER RISK MANAGEMENT FREE APPS FOR REPURPOSING

SAVE ODISHA



SAVE INDONESIA



SAVE MOZAMBIQUE



PROBLEM STATEMENT

COVID 19 Pandemic has infected millions, killed lakhs worldwide forcing the entire global population into a complete lockdown bringing bustling economies to a grinding halt with an economic loss of nine trillion dollars so far. Social distancing and lockdown have been the only way to slowdown infection worldwide including India. Unprecedented global scale of lockdown has made all countries scramble to find ways to effectively coordinate the response to manage and stamp out the disease. All best known information and technologies which work best under normal exigencies to tackle health or disasters or supply chain management tools even in most advanced countries have been rendered inadequate to handle this unprecedented global crisis in modern history. Central and State governments of India have traditionally relied upon fragmented technological adoption which has now become a nightmare to coordinate between multiple departments and multiple ministries with skeletal staff. Rapidly exhausting food stocks and economic ability of governments to feed the billion people and mounting economic losses are forcing governments to consider reopening the economic activity partially in non-infected areas of the country opening possibilities for further infection with unknown consequences if an adequate coordination solution is not put in place.

EMERGING SOLUTION OPTIONS

One of the first timely solutions the Government of India has come up with is the “Arogya Setu” a COVID –19 social distancing app helping people to avoid movement close to known infected persons, a step in right direction. However, there is a big gap and need for a fast track IT solution to develop a comprehensive app that can help in coordination. The best information tool to handle this pandemic is Disaster Risk Management (DRM) apps and tools which facilitate coordination for preparedness, rescue, relief and rehabilitation which can be further repurposed, upgraded to support coordination among many if not all. In order to do this rapidly, one of the known approaches is running a hackathon on developing this tool based on freely available software in DRM, Health and others which can be replicated across the states in the country taking advantage of the vast pool of IT students and faculty by tapping into the Engineering institutes through AICTE and Special projects like spoken tutorials. One of the collaborator, Climate Smart Technologies has released DRM free android apps as part of their social commitments during cyclones of Odisha, Tamil Nadu, Kerala Floods, Indonesia Tsunami and Mozambique floods have agreed to let the hackathon users download their app UI/UX and logics to build additional comprehensive modules, provided they are acknowledged. Similar open source code, apps in health, DRM can also be used in this project with acknowledgement. As the Hackathon outputs are being done on social cause basis not on pure commercial benefit of any one or any one entity, the full stack developers will only submit their installable programs and not their source code, and they will be duly acknowledged for their contribution. This app and websites can be a foundation for winners and other institutes to use as a base for developing improved and advanced versions. The aim is to start the process to build a comprehensive pandemic response app or web tools with various essential modules to support coordination. The only restriction is that the direct outputs or slightly modified versions shall not be used only for pure commercial purpose or profiteering of individuals or entities. This can be used for making it into an open source or partly paid through government projects or funds for social causes similar to apps developed using open source software.

SUGGESTED MODULES FOR INTEGRATION/ UPDATION IN TO THE EXISTING DRM APP.

- Stranded migrant labor tracking
- Labor shelter mapping
- Volunteers registration and assigning work
- Public healthcare locations for COVID 19
- Medical stores
- First responders
- Health workers assigning
- Essential workers assigning
- Patient input data on fever, symptoms etc
- Doctor's online appointment
- Hospital admissions
- Toll free number integration
- Cluster geofencing
- Collection of funds
- Collection of relief materials food
- Labs for testing and results
- Home treatment and alarm system for routine
- Food supply to isolated patients
- Counselling for patients and family
- Government service linkages
- Essential service transport pass
- Personal pass service request
- MSME COVID 19 related products
- Support to unorganized sectors workers
- Support to orphans and vulnerable category
- Online vocational training courses

PATRON

Prof. M. K. SURAPPA FNAE
Hon'ble Vice -Chancellor
Anna University, Chennai

ADVISORY COMMITTEE

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