

Research paper

Content Analysis and Review of Mobile Health Applications on COVID-19

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Table 2. Characteristic of mobile medical apps (android-based)

Table 2a. Universal COVID-19 apps














| No. | Name of Mobile applications | Name of developer (Company/Organisation) | Logo | Country | Size | User rating (n=) | Classification | Category | No. of downloads |
|-----|-----------------------------|--|---|----------------|--------|------------------|----------------|------------------|------------------|
| 1 | COVID Symptom Tracker | King's College London and Zoe Global Ltd |  | United Kingdom | 17 MB | 2.7 (n= 2,355) | 3+ | Health & Fitness | 500,000+ |
| 2 | Test Yourself Goa | Innovaccer Inc. |  | United States | 2.1 MB | 4.5 (n= 64) | 3+ | Health & Fitness | 50,000+ |

Table 2b. Country-specific apps

| No. | Name of mobile applications | Name of developer (Company/Organisation) | Logo | Country | Size | User rating | Classification | Category | No. of downloads |
|-----|-----------------------------|--|---|-----------|--------------------|-----------------|----------------|-------------------|------------------|
| 3 | Aarogya Setu | NIC eGov Mobile Apps |  | India | 3.6 MB | 4.6 (n= 11,670) | 3+ | Health & Fitness | 1,000,000+ |
| 4 | BC COVID-19 Support | Province of British Columbia |  | Canada | 6.2 MB | 4.2 (n= 73) | 3+ | Medical | 10,000+ |
| 5 | Canada COVID-19 | Health Canada |  | Canada | 6.4 MB | 4.5 (n= 69) | 3+ | Medical | 10,000+ |
| 6 | CoBuddy – Covid 19 Tool | FaceTagR |  | India | 38 MB | 4.0 (n= 14) | 3+ | Tools | 1,000+ |
| 7 | Corona Watch | KRSRAC KGIS |  | India | 4.4 MB | 4.0 (n= 631) | 3+ | Maps & Navigation | 100,000+ |
| 8 | Coronavirus Australia | Department of Health Australia |  | Australia | 7.1 MB | 3.2 (n= 662) | 3+ | Health & Fitness | 500,000+ |
| 9 | COVA Punjab | Government of Punjab |  | India | 6.0 MB | 4.3 (n= 5,188) | 3+ | Health & Fitness | 100,000+ |
| 10 | COVI | Doobi Health Technology |  | Qatar | 9.8 MB | 4.5 (n= 31) | 3+ | Education | 10,000+ |
| 11 | Covid-19 | ADiLife Srl |  | Italy | 4.3 MB | 2.9 (n= 66) | 3+ | Health & Fitness | 10,000+ |
| 12 | COVID-19 NI | Health & Social Care Northern Ireland |  | Ireland | 46 MB | 4.1 (n= 173) | 3+ | Medical | 10,000+ |
| 13 | COVID19 Feedback | MeitY, Government of India |  | India | Varies with device | 3.8 (n= 146) | 3+ | Health & Fitness | 50,000+ |

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|----|--|--|---|-----------|--------|-----------------|-----|------------------|------------|
| 14 | COVID-19 Quarantine Monitor Tamil Nadu (official) | Pixxon AI Solutions Private Limited |  | India | 3.1 MB | 3.8 (n= 92) | 3+ | Communication | 50,000+ |
| 15 | COVID-19 West Bengal Government | Tourism Department, Government of West Bengal |  | India | 3.6 MB | N/A (n= 0) | 3+ | Social | 500+ |
| 16 | GCC - Corona Monitoring | Greater Chennai Corporation |  | India | 6.9 MB | 3.3 (n= 57) | 12+ | Social | 5,000+ |
| 17 | GoK - Direct Kerala | Qkopy |  | India | 4.1 MB | 4.7 (n= 13,323) | 3+ | Communication | 100,000+ |
| 18 | Home Quarantine (Kwarantanna domowa) | Ministerstwo Cyfryzacji |  | Poland | 77 MB | 1.4 (n= 1,739) | 3+ | Medical | 50,000+ |
| 19 | HSE COVID-19 | patientMpower |  | Ireland | 36 MB | N/A (n= 0) | 3+ | Health & Fitness | 500+ |
| 20 | Mahakavasch | Maharashtra State Innovation Society |  | India | 4.5 MB | 2.8 (n= 54) | 3+ | Medical | 10,000+ |
| 21 | MP COVID RESPONSE APP | National Health Mission |  | India | 3.2 MB | 4.8 (n= 26) | 3+ | Health & Fitness | 1,000+ |
| 22 | NCOVI | Ministry of Health and Ministry of Information and Communication |  | Vietnam | 12 MB | 4.5 (n= 24,017) | 3+ | Medical | 1,000,000+ |
| 23 | Quarantine Watch | Revenue Department, Government of Karnataka |  | India | 5.3 MB | 1.6 (n= 252) | 3+ | Health & Fitness | 10,000+ |
| 24 | StayHomeSafe | GohHK,OGCIO, HKSARG |  | Hong Kong | 11 MB | 1.5 (n= 174) | 3+ | Health & Fitness | 10,000+ |











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|----|---|---|---|-------------------|--------|----------------|----|------------------|----------|
| 25 | Test Yourself PuduCherry | Innovaccer Inc |  | United States | 2.6 MB | 3.9 (n= 8) | 3+ | Health & Fitness | 5000+ |
| 26 | TraceTogether | Ministry of Health and Government Technology Agency |  | Singapore | 4.1 MB | 3.9 (n= 1,536) | 3+ | Medical | 500,000+ |
| 27 | 자가격리자 안전보호 (Self-Isolator Safety & Protection) | Ministry of the Interior and Safety |  | Republic of Korea | 14 MB | 2.9 (n= 210) | 3+ | Lifestyle | 50,000+ |
| 28 | 자가격리자 전담 공무원 (Self-isolating Government Officials) | Ministry of the Interior and Safety |  | Republic of Korea | 14 MB | N/A (n= 0) | 3+ | Lifestyle | 10,000+ |

Table 2c. Non-English language apps

| No. | Name of mobile applications | Name of developer (Company/Organisation) | Logo | Country | Size | User rating | Classification | Category | No. of downloads |
|-----|-----------------------------|--|---|-----------|-------|----------------|----------------|------------------|------------------|
| 29 | 10 Rumah Aman | Direktorat Pengendalian Kominfo |  | Indonesia | 10 MB | 4.1 (n= 95) | 3+ | News & Magazines | 10,000+ |
| 30 | Colab | Colab S.A. |  | Brazil | 16 MB | 4.4 (n= 3,479) | 12+ | Social | 100,000+ |
| 31 | CoronaMadrid | Comunidad de Madrid |  | Spain | 22 MB | 3.4 (n= 185) | 3+ | Medical | 50,000+ |
| 32 | Coronavirus Bolivia | Agetic Bolivia |  | Bolivia | 15 MB | 3.7 (n= 206) | 3+ | Health & Fitness | 10,000+ |
| 33 | CoronApp - Columbia | INS.GOV |  | Columbia | 10 MB | 3.9 (n= 3,044) | 3+ | Health & Fitness | 100,000+ |
| 34 | Coronavirus - SUS | Governo do Brasil |  | Brazil | 12 MB | 4.0 (n= 9,980) | 3+ | Health & Fitness | 1,000,000+ |

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|----|-------------------------------------|--|---|---------------|--------|-------------------|----|------------------|----------|
| 35 | Coronavirus Ceara | Secretariat of Public Security of the state of Ceara |  | Brazil | 7.4 MB | 3.7 (n= 7) | 3+ | Medical | 1,000+ |
| 36 | Coronavirus SP | PRODESP – Cia de Proc. De Dados do Estado de SP |  | Brazil | 28 MB | N/A (n= 0) | 3+ | Health & Fitness | 1,000+ |
| 37 | Coronavirus UY | AGESIC |  | United States | 8.6 MB | 4.4 (n= 1,280) | 3+ | Health & Fitness | 100,000+ |
| 38 | COVID-19 | Electronic Health Administration |  | Vietnam | 75 MB | 4.2 (n= 327) | 3+ | Medical | 100,000+ |
| 39 | COVID-19 | BS Software Development GmbH&Co. KG |  | Germany | 21 MB | 3.0 (n= 115) | 3+ | Medical | 10,000+ |
| 40 | COVID-19.eus | Osakidetza |  | Spain | 7.7 MB | 3.4 (n= 275) | 3+ | Medical | 10,000+ |
| 41 | Covid-19 Ministerio de Salud | Presidencia de la Nacion Argentina |  | Argentina | 50 MB | 3.4 (n= 1,231) | 3+ | Medical | 500,000+ |
| 42 | COVID-19 Parana | Celepar |  | Brazil | 7.1 MB | N/A (n= 0) | 3+ | Health & Fitness | 500+ |
| 43 | COVID19 Regione Sardegna | Regione Autonoma Della Sardegna |  | Italy | 7.1 MB | N/A (n= 0) | 3+ | Tools | 10+ |
| 44 | COVID AP-HM | RADHIUS |  | France | 4.1 MB | N/A (n= 0) | 3+ | Medical | 5,000+ |
| 45 | Covidom Patient | Assistance Publique Hopitaux de paris |  | France | 3.9 MB | 2.5 (n= 50) | 3+ | Medical | 10,000+ |
| 46 | GVA responde | Generalitat Valenciana |  | Spain | 1.9 MB | N/A | 3+ | Communication | 0 |
| 47 | Korina Onlem | T.C. Saglik Bakanligi |  | Turkey | 50 MB | 4.1 (n= 137) | 3+ | Health & Fitness | 50,000+ |

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|----|---|---|--|-----------|--------|-------------------|----|---------------------|----------|
| 48 | LAZIOdrCOVID | LAZIOcrea s p A |  | Italy | 3.8 MB | 3.0 (n= 428) | 3+ | Medical | 50,000+ |
| 49 | Pedulilindungi | P.T. Telekomunikasi Indonesia, Tbk. |  | Indonesia | 3.5 MB | 4.1 (n=457) | 3+ | Medical | 100,000+ |
| 50 | PIKOBAR West Java | West Java Provincial Government |  | Indonesia | 15 MB | 4.3 (n= 3,349) | 3+ | News & Magazines | 500,000+ |
| 51 | Plan Jalisco Covid-19 | Gobierno del Estado de Jalisco |  | Mexico | 23 MB | N/A (n= 0) | 3+ | Health & Fitness | 100+ |
| 52 | SESA Monitoramento | Celepar |  | Brazil | 6.1 MB | 2.3 (n= 12) | 3+ | Health & Fitness | 5,000+ |
| 53 | STOP COVID19 CAT | Generalitat de Catalunya |  | Spain | 3.1 MB | 3.3 (n= 1,248) | 3+ | Medical | 500,000+ |
| 54 | המגן - אפליקציה למלחמה בקורונה (Hamagen) | Israel Ministry of Health |  | Israel | 22 MB | 3.0 (n= 2,654) | 3+ | Health & Fitness | 500,000+ |