

Table 1) Technical characteristics of COVID-19 active screening-therapeutic applications and systems with the possibility of user interaction

Application/ System	Type of registr ation	Sharing	Health centers	Manufacturer	How to access	Number of installation	Numbe r of comme nts of the users	Score
Darmankade (IOS & Android)	Name, phone number	×	✓	Private: Tehran Smart Health	https:// www.dar mankade. com/dar mankade -app App Markets: Bazaar, Myket, Charkho neh	4600	40	3.9
Mask (Android)	Phone number	✓	×	Private and governmental: Aban Company, Jaleb Innovation and Design Agency, Mask web app development team, proffesors and students of Sharif, Shahid Beheshti, and Amir Kabir universities	https:// mask.ir/; App Markets: Bazaar, Myket, Charkho neh	700000	6674	4.39
CORONA115 (Android)	Name	✓	✓	Private: Aluni software company, Nikan hospital	https://c orona11 5.com	2873	-	-
Against CORONA Virus (Android)	Name, phone number	×	✓	Private and governmental: Ministry of Health, Treatment and Medical Education, the Medical System Organization, Ministry of Communication s and Technology	https://a c19.ir; App Markets: Bazaar	200000	6641	4.1
COVID-19- screening	Without registr ation	✓	×	Private and governmental: National Institute for the Development of Medical Research in Iran, Dr. Abidi Pharmaceutic als, Central Bank of the Islamic Republic of Iran, Company, Endocrin Research	https://c orona.res earch.ac.i r/corona - screening	-	-	-

				Institute of Non-Communicable Diseases, Ministry of Health and Medical Education, Office of Statistics and Information Technology				
COVID-19 self-assessment-Ministry of Health	National Code; Date of birth; Phone	×	×	Governmental: Ministry of Health, Treatment and Medical Education	https://alamat.gov.ir/login	-	-	-
COVID-19 Online Testing	Without registration	×	×	Governmental: Medical Council of the Islamic Republic of Iran, Shahid Beheshti University of Medical Sciences, General Practitioners Association, Deputy of Treatment of the Ministry of Health and Medical Education, Cooperative Welfare Fund and the Medical Council, Broadcasting, Radio Salamat; Deputy of Social-Cultural Affairs of Tehran Municipality Health Department, Red Crescent, Execution of Imam Khomeini's Order	https://test.corona.ir/	-	-	-
COVID-19 - Isfahan-checklist	Phone number (optional)	×	✓	Governmental: Isfahan University of Medical Sciences	https://www.coronaisfahan.ir/checklist/26545	-	-	-
190 (24×7)	Phone number	×	✓	Governmental: Ministry of Health, Treatment and Medical Education	Calling 190	-	-	-

4030 (24x7)	Phone number	x	✓	Governmental: Execution of Imam Khomeini's Order, Ministry of Health and Medical Education, Mobin Iran Electronic Development Company; Barakatel Company	Calling 4030	-	-	-
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Table 2) Technical characteristics of active screening-therapeutic applications of COVID-19 with indirect interaction with the user

Application	Sharing	Health centers	Manufacturer	How to access	Number of installations	Number of comments of the users	Score	How to provide feedback
4030	×	✓	Governmental: Kian Iranian Smart Technologies Development Group, Execution of Imam Khomeini's Order; Ministry of Health and Medical Education	https://app.4030call.ir	2000	×	×	19 self-assessment system of the Ministry of Health
Safirán Salamati	×	✓	Private and governmental: headquarters of the knowledge-based economy culture-building development, Vice President for Science and Technology, Ministry of Health and Ministry of Education, Sivan Accelerator Knowledge-based Company; Motahar Cultural Institute	Markets : Bazaar, Myket, Charkhonline, Anardoni, Sibapp, Sibcheh, Iranian App Store, Direct download from: coronaa pp.ir	23000	205	3.9	1. COVID-19 self-assessment system of the Ministry of Health; 2. Online system testing of the medical system

Table 2) Technical characteristics of active screening-therapeutic applications of COVID-19 with indirect interaction with the user

Application	Sharing	Health centers	Manufacturer	How to access	Number of installation	Number of comments of the users	Score	How to feedback
COVID-19 Testing and Knowledge (VADA)	×	×	Private: VADA House of Mobile	Market: Bazaar	1000	28	3.6	Online system testing of the medical system
COVID-19 News and testing	×	✓	Private: without the name of company/organization	Market: Myket	500	16	4.5	19 self-assessment system of the Ministry of Health
COVID-19 diagnosis	×	×	Private: without the name of company/organization	Market: Bazaar	500	8	4	19 self-assessment system of the Ministry of Health
Corona-check	×	×	Private: without the name of company/organization	Market: Myket	6000	9	2.89	1. COVID-19 self-assessment system of the Ministry of Health; 2. Online system testing of the medical system
Coronaplus	✓	✓	Moboapp	Market: Myket	500	-	-	COVID-19 self-assessment system of the Ministry of Health
Against CORONA virus (ZeroOne)	×	✓	ZeroOne	Market: Myket	200	-	-	Online system testing of the medical system

Table 3) Distribution of various types of feedback in systems, applications, and online counseling-therapeutic counseling of COVID-19 with user interaction

Application /System	Assessing the history of exposure	Assessment of risk factors	Clinical symptoms	Screening	Need to referral a doctor/clinic	Need to follow-up	Guide to the care and treatment of suspected cases	Prevention guide (quarantine, isolation)	References	How to provide feedback
Darmankad e	×	✓		✓	✓	×	✓	×	×	Application/System
Mask	✓	✓	✓	✓	✓	×	×	×	×	Application/System
CORONA115	✓	✓	✓	✓	✓	✓	✓	✓	✓	Application/System
Against CORONA virus	✓	✓	✓	✓	✓	✓	×	×	×	Application/System
COVID-19-screening	×	✓	✓	✓	✓	×	×	×	×	System
COVID-19 self-assessment -ministry of Health	×	✓	✓	✓	✓	×	×	×	×	SMS
COVID-19 Online Testing	✓	✓	✓	✓	✓	×	×	×	×	System
COVID-19 - Isfahan-checklist	×	✓	✓	✓	✓	×	×	×	×	System
4030	✓	✓	✓	✓	✓	✓	✓	✓	-	Telephone/Orally
190	✓	✓	✓	✓	✓	×	✓	✓	-	Telephone/Orally

Table 4) Scoring COVID-19 active health-based applications based on MARS

Name of the active application*	Engagement	Functionality	Aesthetic	Information	Individual's perception of program quality	Total score
4030	3.4	3.7	3.3	4.1	3.4	3.6
Darmankade	3.3	4.3	3.7	3	3.1	3.6
Mask	3.2	3.9	3.5	3.1	2.6	3.6
CORONA115	2.3	3.6	3.0	4.3	2.3	3.1
Against CORONA virus	2.3	3	3.2	3.4	1.5	2.7
Safirán Salamati	2.4	3.2	2.5	3.0	1.9	2.6
COVID-19 news and testing	1.7	2.3	2.3	3.1	1.4	2.2
Against CORONA virus (ZeroOne)	1.7	2.3	2.9	2.5	1.3	2.1
COVID-19 diagnosis	1.7	2.2	1.7	2.9	1.1	2.0
Corona-check	1.6	2.2	1.7	3.1	1.1	1.9
COVID-19 Testing and Knowledge (VADA)	1.6	2	1.8	2.6	1.3	1.9
Total mean	3.3	3.0	2.7	3.2	2.0	2.6