

TABLE I
ANALYSIS OF APPS USING FRAMEWORK'S DYNAMIC MODULE.

App Name	Category	Version	Downloads	Analysis
Gaana	Music	8.53.2	100M+	Device info: device model; brand; hardware; manufacturer; OS version; screen height, width; App info: app version, build, package name; source of install; installer package; Sensor data: accelerometer data; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; UUID; Personal info: phone number; OTP; locale; country; timezone
JioSaavn	Music	9.28.3	100M+	Device info: device model; manufacturer; hardware; OS version; screen height, width, density; App info: app version; build; package name; source of install; installer package; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; IDFA; Personal info: locale; country; timezone
Spotify	Music	9.0.80.1343	1B+	Device info: device model; manufacturer; brand; hardware; OS version; screen height, width, density; App info: app version, build, package name, tracking enabled; source of install; Sensor data: accelerometer data; Unique IDs: Anonymous ID; Personal info: gender; locale; country; timezone
WeSing	Music	5.91.2.1009	100M+	Device info: device model; manufacturer; hardware; OS version, build; App info: app build; installer package; Unique IDs: Advertiser ID, Anonymous ID, Attribution ID, Android ID; Personal info: email; locale
Wynk Music	Music	3.72.0.2	100M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; SDK level; App info: app version, build; Unique IDs: Anonymous ID, Android ID; Personal info: phone number; email; OTP; locale; country; timezone
Beauty Camera - Selfie Camera	Editing	3.1.5	10M+	Device info: device model; OS version; screen height, width; App info: application package name; source of install; Sensor data: accelerometer data; Unique IDs: IDFA; Personal info: locale; timezone
InShot	Editing	2.145.1500	500M+	Device info: device model; screen height, width; App info: application package name; Unique IDs: Android ID; Personal info: email
Snapseed	Editing	2.19.1.30-3051424	100M+	Device info: device model; hardware; manufacturer; OS build; App info: application build; Personal info: locale; country
Photo Editor Pro - Polish	Editing	1.662.224	100M+	Device info: device model; hardware; manufacturer; OS build; App info: app version, build, package name; Personal info: locale; country; timezone
PicsArt	Editing	28.4.8	1B+	Device info: device model; hardware; manufacturer; OS build, version; App info: application package name, build, source of install; Unique IDs: Advertiser ID, Anonymous ID, Attribution ID, Android ID; Personal info: email; name; locale; timezone; country
Swiggy	Food	4.93.1	100M+	Device info: device model; manufacturer; hardware; OS build; App info: app version, build; Personal info: locale; country
Domino's	Food	12.1.26	100M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; App info: app version, build; installer package; Sensor data: accelerometer; Unique IDs: Advertiser ID, Anonymous ID, Attribution ID; Personal info: phone number; OTP; name; locale; country; timezone; latitude; longitude; city
McDelivery	Food	14.2.0	10M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; App info: app version, build; Sensor data: accelerometer; Unique IDs: Advertiser ID, Anonymous ID, Attribution ID; Personal info: phone number; OTP; name; locale; country; timezone; latitude; longitude; city
Zomato	Food	19.1.8	100M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; App info: app version, build; installer package; Sensor data: accelerometer; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: phone number; OTP; name; email; locale; country; timezone; latitude; longitude; city
Instamart	Food	4.92.0	10M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; App info: app version, build; installer package; Sensor data: accelerometer; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: phone number; OTP; name; locale; country; timezone; latitude; longitude; city
Adda247	Education	11.9.7	10M+	Device info: device model; manufacturer; brand; hardware; OS version, build; screen height, width; App info: app version, build, package name; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: email; locale; country; timezone
HomeworkApp	Education	2.20.17	1M+	Device info: device model; brand; manufacturer; OS version; App info: application package name; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: locale; timezone
MyPathshala	Education	3.2.5	500K+	Device info: device model; App info: application package name; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID
NET SET JRF Mock Tests	Education	2.2	100K+	Device info: device model; brand; manufacturer; OS version; App info: app version, package name; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: email; locale; timezone
PW	Education	15.34.05	10M+	Device info: device model; brand; manufacturer; OS version; hardware; screen height, width; App info: app version, build, package name; Unique IDs: Android ID; Personal info: OTP; email; name; locale; country; timezone
Astrology & Horoscope	Astrology	3.0	1M+	Device info: device model; manufacturer; hardware; OS build; App info: application build; Unique IDs: UUID; Personal info: locale
AstroSageAI	Astrology	27.4	50M+	Device info: app version; Personal info: phone; OTP; gender; latitude; longitude; city; timezone
AstroTalk	Astrology	1.1.402	50M+	Device info: device model; manufacturer; brand; hardware; OS build; SDK level; App info: app version, build, package name; Installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: phone; OTP; DOB; gender; pincode; locale; country; city; timezone
AstroYogi	Astrology	19.1	10M+	Device info: device model; manufacturer; hardware; OS build; SDK level; App info: app version; build, package name; Installer package Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: OTP; locale; country; timezone
HiAstro	Astrology	3.8.0	100K+	Device info: device model; manufacturer; hardware; OS build; App info: app build; Personal info: OTP; DOB; locale; latitude; longitude

Dance Workout	Fitness & Health	3.0.512	1M+	Device info: device model; manufacturer; hardware; OS build; App info: app version, build, package name; Personal info: locale; country
EasyFit	Fitness & Health	1.1.8	100K+	Device info: device model; manufacturer; hardware; OS build; SDK level: Personal info: locale
Home Workout	Fitness & Health	1.5.7	100M+	Device info: device model; manufacturer; hardware; OS build; SDK level: screen height, width; App info: app version, build, package name; Sensor data: accelerometer; Unique IDs: IDFA; Personal info: locale; country; timezone
Yog4Lyf	Fitness & Health	2.9.2	1M+	Device info: device model; manufacturer; hardware; OS build, version; App info: app version, build, package name; Installer package Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: email; locale; country; timezone
Yoga for Beginners	Fitness & Health	1.5.9	5M+	Device info: device model; manufacturer; hardware; OS build, version; screen height, width; App info: app version, build, package name, tracking enabled; installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: email; locale; country; timezone
Dot & Key	Shopping	8.0.1	1M+	Device info: device model; manufacturer; hardware; OS build, version; brand; screen height, width; App info: app version, build, package name; Installer package; Unique IDs: Anonymous ID; Attribution ID; Personal info: OTP; locale; country; timezone
Libas	Shopping	10.19.0	1M+	Device info: device model; manufacturer; brand; hardware; OS build, version; SDK level: screen height, width; rooted; App info: app version, build, package name, tracking enabled; Installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: phone; OTP; email; name; pincode; locale; country; city; timezone
Pilgrim	Shopping	11.0.19	1M+	Device info: device model; manufacturer; brand; hardware; OS build, version; SDK level: App info: app version, build, package name, tracking enabled; Installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: phone; OTP; address; locale; country; city; timezone
Renee Cosmetics	Shopping	2.1.583	1M+	Device info: device model; manufacturer; brand; hardware; OS build, version; SDK level: screen width; App info: app version, build, application package name, tracking enabled; Installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: OTP; locale; country; timezone
The Derma Co	Shopping	3.1	1M+	Device info: device model; manufacturer; brand; hardware; OS build, version; SDK level: screen height, width; App info: app version, build, package name, tracking enabled; Installer package; Unique IDs: Advertiser ID; Anonymous ID; Android ID; Attribution ID; Personal info: OTP; phone; email; name; locale; country; timezone; city; DOB; address
eCabs	Rides	5.12.4.2	500K+	Device info: device model; manufacturer; brand; hardware; OS build, version; SDK level: screen height, width; App info: app version, build, package name, tracking enabled; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: locale; country; timezone
Ola	Rides	7.3.9	100M+	Device info: device model; manufacturer; brand; hardware; OS build, version; App info: app version, build; Unique IDs: Android ID; Personal info: locale; country; timezone
OraRide	Rides	2.2.6	50K+	Device info: device model; manufacturer; hardware; OS build, version; screen height, width; App info: application package name, build, tracking enabled; Unique IDs: Android ID; Personal info: email; locale; country
Rapido	Rides	8.80.0	100M+	Device info: device model; manufacturer; hardware; OS build; App info: application build, version; Personal info: locale; country; timezone
Uber	Rides	4.599.10002	1B+	Device info: device model; manufacturer; hardware; OS build; screen height, width; App info: app version, build; source of install; Unique IDs: UUID; Android ID; Personal info: email; phone; locale; country; timezone; latitude; longitude
AB Friends	Gaming	13.5.3	100M+	Device info: device model; manufacturer; hardware; OS build; App info: app version, build; package name; installer package; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: locale; country
Candy Crush Soda	Gaming	1.303.1	500M+	Device info: device model; brand; OS version; App info: app version; package name; installer package; Unique IDs: Advertiser ID; Anonymous ID; Attribution ID; Personal info: locale
Hangman Words	Gaming	1.5106	10M+	Device info: device model; manufacturer; hardware; OS build; screen height, width; App info: app version; build, package name; source of install; installer package; Unique IDs: UUID; Advertiser ID; Anonymous ID; Attribution ID; Personal info: credit card; locale; country; timezone
Water2	Gaming	1.9.48	100M+	Device info: device model; OS version; screen height, width; App info: app version, package name; source of install; Sensor data: accelerometer data; Unique IDs: IDFA; Personal info: locale; country; timezone
Yalla Ludo	Gaming	1.4.5.1	100M+	App info: application package name
DreamShort	Entertainment	1.26.20	1M+	Device info: device model; OS version, OS build; screen height, width; brand; hardware; manufacturer; SDK level: App info: app version, package name, tracking enabled; source of install; build; Sensor data: accelerometer data; Unique IDs: IDFA; Android ID; Anonymous ID; Attribution ID; Personal info: email; locale; country; timezone
JioCinema	Entertainment	25.04.100-ce3c406	100M+	Device info: device model; OS build; hardware; manufacturer; App info: app version; build; Unique IDs: Advertiser ID; Personal info: locale; country; timezone
Netflix	Entertainment	9.37.0 build 7 63508	1B+	Device info: device model; OS build; hardware; manufacturer; App info: app version; build; Personal info: locale; country
Sony LIV	Entertainment	6.22.10	100M+	Device info: device model; hardware; manufacturer; OS build; App info: app version; build; Personal info: locale; country; timezone
ZEE5	Entertainment	39.31.4	100M+	Device info: device model; hardware; manufacturer; OS build; SDK level: brand; App info: app version, build, package name, installer package; Unique IDs: Advertiser ID; Anonymous ID; Personal info: locale; country; timezone