



MIRACLE MOBILE PLATFORM FOR CREATING

NO-CODING, NATIVE, ENTERPRISE APPS

CROSS PLATFORM PORTABILITY

Miracle Mobile platform is built to solve the challenges facing companies with increasing mobile device fragmentation. It veils all the complexities of generating native code individually for each mobile platform, and truly allows the creation of an app once to run on all popular operating systems.

Mobile apps created through Miracle Platform work seamlessly on all devices using these operating systems:



iOS
(6.1 and above)



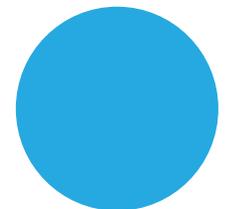
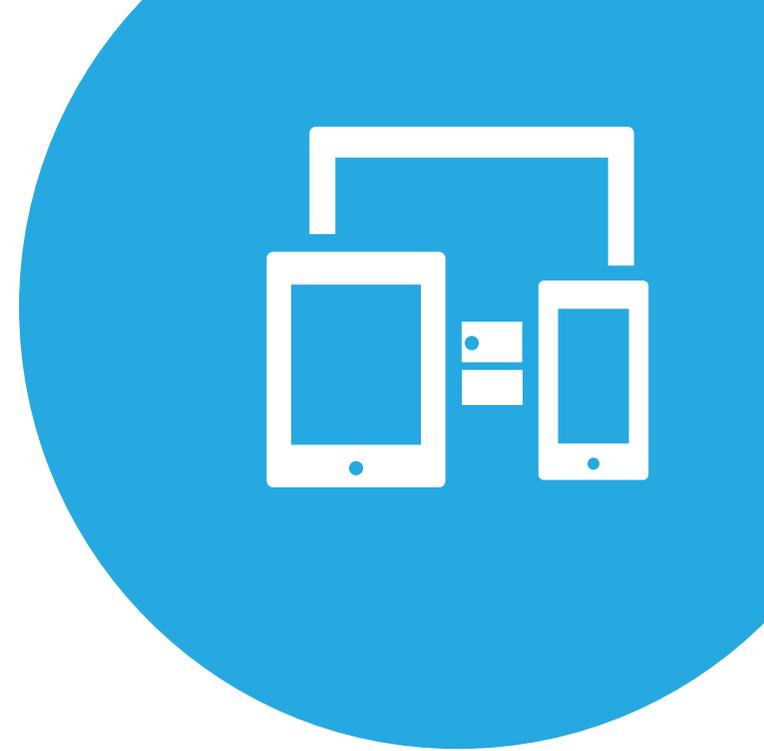
Android
(4.0.4 and above)



Windows
(7.0 and above)

Miracle Platform creates a separate installation file for each platform (APK, IPA and XAP) which can be distributed internally or to the external users through public app stores.

Apps generated from Miracle Platform are neither hybrid nor HTML5 and aren't restricted by browser's limitations. The apps perform faster and deliver a rich experience to the users, leveraging native capabilities of the devices' operating systems.



AGILE

The development cycle of native apps is surprisingly quick on Miracle Platform as it provides many amazing tools that make the job really quick and easy.

READY MADE APP COMPONENTS

Miracle Platform comes with many of readymade components that just need to be put together to create a powerful custom app.

PRE-BUILT PAGES

- Login Page with Authentication
- Application Home Page with Tiles
- Application Home Page with List
- App Settings Page
- Syncing Page
- Notifications Page
- Save Drafts

SUPPORTED PAGE TYPES

- Multi Tabbed Page
- Master-Detail Page
- Content Page
- Carousel Page
- Navigation Page

READY MADE CONTROLS

- Plain Textbox
- Auto Complete Textbox
- Label
- Image
- Button
- Picker
- Slider
- Selector (Single Choice)
- Selector (Multiple Choices)
- Date Time Picker
- Stepper
- List View
- Web View
- Signature Panel
- Repeater (Hierarchy of Controls)
- File Uploader
- Image Picker

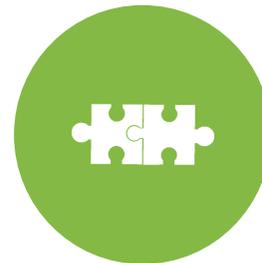
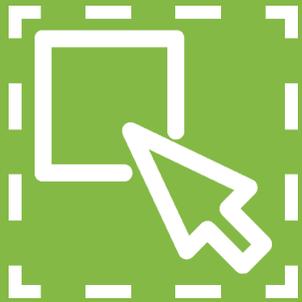
REPORTS COMPONENTS

- Donut Chart
- Cartesian Chart
- Pie Chart
- Line Chart

INTEGRATION WITH MOBILE NATIVE APPS

- Capture and Upload Image
- Select Files From Local Storage and Upload
- Download and View Files
- Show Location on Map
- Add Contact Numbers to Mobile Contacts List
- Place Phone Calls and Send SMS
- Generating PDF of forms
- Email Form as PDF





DRAG AND DROP APP DESIGNER

Miracle Mobile is an online platform where, without writing code, one can quickly and easily create custom native apps for complex business logic and beautiful user interfaces that work on Android, Apple and Windows devices seamlessly.

OUT-OF-THE-BOX INTEGRATION CONNECTORS

Through Miracle Platform's built-in connectors, mobile apps can easily communicate with your organization's existing data repositories and applications. One can use data from any external data source in real time with any application created on Miracle Platform.

DATABASE CONNECTORS

MS SQL and MYSQL connectors are available out of the box on the Miracle Platform. These connectors are powerful enough to create data tables automatically and map them with mobile application data fields. An app can be mapped to multiple data sources seamlessly without writing a single line of code.

ADFS CONNECTOR

Through ADFS connector, one can extend an organization wide Single Sign On to any of the mobile apps that have been created through Miracle Platform.

WEB SERVICES CONNECTORS

Through SOAP and REST web services connectors mobile apps can easily communicate with third party applications without needing any coding.

CUSTOM CONNECTORS

If the need arises to integrate mobile apps with a third party proprietary system, a custom connector can be written on Miracle Platform with minimal efforts.

EXPRESSION ENGINE

Miracle Platform comes with a flexible yet powerful expression engine that allows the use of expressions in Page Names, Field Names, Field Values, etc. One can create a completely dynamic app by combining multiple values to represent with the help of an expression.

HANDY APP MANAGEMENT

DEV, TEST AND PRODUCTION ENVIRONMENT

Separate environments are available on Miracle Mobile Cloud for development; testing and live instances of the applications. Therefore, each phase of app development life cycle can be catered for adequately.

PAIN-FREE PUBLISHING

Easily publish your mobile app internally or on public app stores for external users.

FORCE UPDATES

You can apply an update across all application instances by force if it's a crucial one. Alternatively one can leave it to users' discretion to apply an update that suits their convenience, if not urgent.

CRASH AND PERFORMANCE REPORT

Miracle Platform notifies with application problems by capturing crash reports, exceptions and performance bottlenecks.

MIGRATION

From a few clicks, one can effortlessly migrate an app along with all its dependencies to a new environment on Miracle Mobile Cloud.



NEAR-REAL-TIME UPDATE

Push live updates to your mobile app without resubmitting to public app stores for approval or requiring users to manually update.

PARTIAL UPDATES

Miracle Platform keeps track of versions at page level allowing pages and forms to be downloaded individually without having the need to download the entire app each time.

ANALYTICS ABOUT APP'S USAGE

Detailed usage information can be found for every app on Miracle Platform. Each event is tracked and available, providing information on, when and where people use the app.

REPLICATING

Instead of creating a new app from scratch each time, one can drastically reduce development time simply by replicating an existing application and making modifications according to requirements.

FULLY SECURED

Miracle Platform is equipped with a robust set of security measures that ensure complete protection of data whether it is in motion or at rest.

DATA ENCRYPTION

SSL ENCRYPTION

All communication between Miracle Mobile Cloud and Mobile app takes place through industry standard SSL protocol.

AES-256 ENCRYPTION

Sensitive data is stored on mobile device in encrypted form using high grade AES-256 encryption.

ASYMMETRIC ENCRYPTION

User Credentials are encrypted through (RSA) asymmetric encryption before being relayed to the server.

USER AUTHENTICATION AND ACCESS RIGHTS

ACTIVE DIRECTORY AUTHENTICATION

Miracle Platform provides readymade Microsoft Active Directory connector which allows an enterprise to authenticate its mobile app users directly from its corporate identity management system.

APPLICATION ACCESS PERMISSIONS

Roles Based Security mechanism is available on Miracle Platform for granting access rights to a user on a certain area of the mobile app. This allows downloading of selective pages of an app on the user's device and at the same time eliminates the risks of confidential information being exposed to an irrelevant audience.





FULLY PROTECTED CLOUD

VIRTUAL PRIVATE CLOUD (VPC)

The entire Miracle Platform servers' farm is encapsulated inside a Virtual Private Cloud (VPC), disallowing any direct interaction with outside world.

ELASTIC LOAD BALANCING (ELB)

Miracle Mobile cloud is placed behind an ELB layer which significantly reduces the hazards of DDOS and Spam attacks.

SEPARATE APPLICATION AND DATABASE LAYER

In the Miracle Mobile Cloud, Application and Database instances are deployed on totally separate arrays of servers, making it difficult for intruders to get access to the database.

COMPLETE CONTROL ON APP

With Miracle Platform, the enterprise management enjoys complete control of the installed instances of a mobile app. Its prominent features include:

- Complete history of mobile app from the day it was installed on the device
- Device's latest status
- Blocking a user from accessing an app
- Blocking a device from running an app
- Forcefully logging out a user from an app
- Wiping out mobile app data
- Removing mobile app from the device

HIGH PERFORMING

Miracle Platform leverages a number a speed boosting techniques in order to ensure maximum throughput.

APP METADATA CACHING LAYER

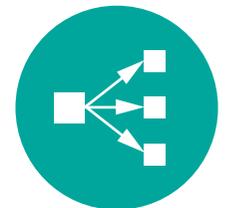
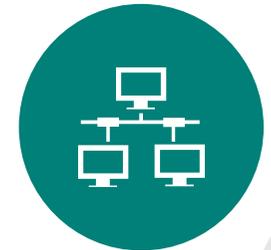
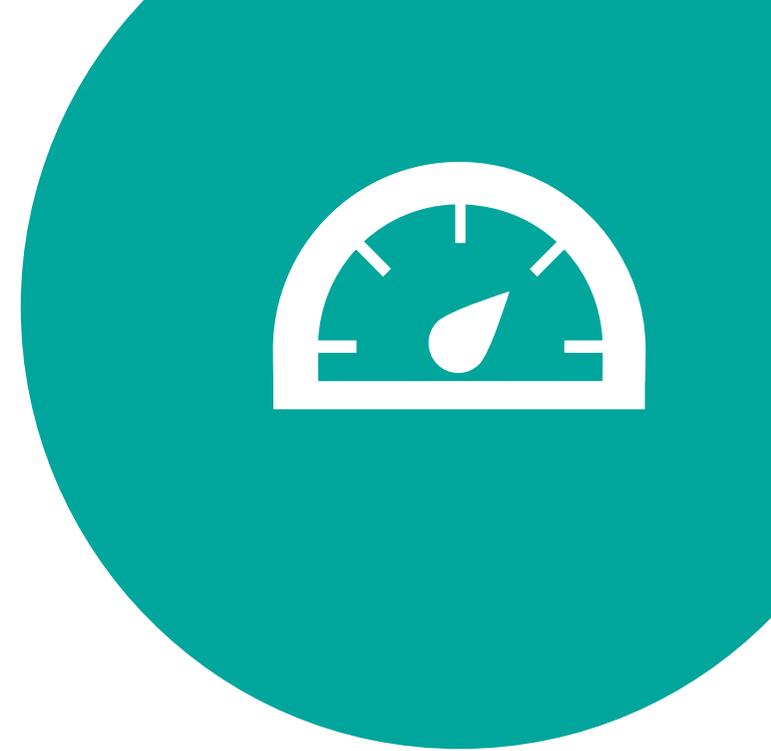
A special metadata caching layer is placed on top of the database where mobile apps metadata is stored. This significantly reduces the download time of mobile app to devices.

CONTENT DELIVERY NETWORK

Miracle Mobile Cloud leverages CDN in order to minimize serving time of content and UI assets inside mobile apps.

ELASTIC LOAD BALANCING (ELB)

A layer of Elastic Load Balancing (ELB) servers have been introduced to the topology in order to ensure that every incoming request is served in the shortest possible duration.



CONSISTENT

Built on a robust infrastructure, Miracle Mobile Cloud is fully capable of delivering steady and stable non-stop performance.

AUTO SCALING

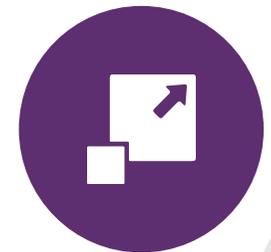
With its capability to automatically sense emerging peaks in usage trends, Miracle Mobile Cloud can scale out its capacity in a totally automatic way, performing consistently under varying conditions.

FAULT TOLERANT

Miracle Mobile Cloud is built to meet mission critical business continuity goals. Its application and database servers are located in Multiple Availability Zones (MAZ) with active failover mechanisms in place. Combined with ELB, this scheme preemptively caters for servers that abruptly fail.

DISASTER RECOVERY (DR)

Miracle Mobile Cloud is also designed to sustain natural disasters. With its geographically distant Production and DR sites and its capability to replicate data in real time, it can easily ensure zero data loss in the event of natural disasters.



OFFLINE CAPABLE

Leveraging its robust syncing mechanism, Miracle Platform allows mobile apps to work completely offline and deliver an uninterrupted user experience.

BACKGROUND SYNCING

By virtue of being fully native, mobile apps created on the Miracle Platform can sync data in the cloud through background data submission, allowing users to continue working with the app, while large forms and attachments are being submitted to the server silently.

SYNCING PREFERENCES

Though syncing service works in the background, control resides with the end user. Users can not only choose to sync selected items, they can pause or restart in-progress syncing jobs as well. Items that fail to sync with the server for any reason are notified through local device notifications and are parked separately in the pending items queue. Possible reasons for failure are reported, keeping users informed at all times.



INTERACTIVE

One can create highly interactive mobile apps through Miracle Platform. It gives a wide range of possibilities in which an app can communicate with the user. Some of its prominent features are:

CENTRALLY CONFIGURABLE

Miracle Platform provides a management console from where you can configure any type of notifications that you want your app to notify to its users. As soon as a device comes in connection with the server, all notification definitions are downloaded to the device and consequently, local mobile application instance executes these notifications when pre-requisite conditions are true. On the server side, Miracle Platform has a robust Email communication layer that can deliver any notification through email, to the desired recipients.

POLICIES DRIVEN NOTIFICATIONS

Using various Triggers and Conditions, one can set policies that determine which notifications are to be raised and at what time and on which devices.





NOTIFICATIONS RELAY FROM EXTERNAL SYSTEMS

Miracle Platform Notifications architecture is open for integration with any third party applications. This means it is fully capable of receiving notifications from third party applications and relaying them to Miracle mobile apps users.

NOTIFICATIONS HISTORY

In case a notification is overlooked for any reason, there is no loss, as complete notifications history is always available in the mobile apps.

PERSONALISED NOTIFICATIONS

Benefiting from its powerful expression engine, Miracle Platform allows to create personalised notifications that are more meaningful and informative to end users.



Head Office

68 Hasler Road Osborne Park
WA 6017, Australia

Tel: +61 8 9200 2500
Fax: +61 8 9200 2300

www.miracletek.com.au
info@miracletek.com.au