

# Web Services for Mobile Apps

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## Background

S2 Analytics is a small company based in New Delhi. It is into stock market research. We have a few mobile apps and one we want to develop. Some of the web services are there to improve the existing apps and some to add new functionality. All the data which service requires is stored in DB.

## Web Service #1 – Robust Logout System

When a user logs in we need to be aware that he has logged in and the following should happen:

- If his subscription has expired he should be logged out automatically
- If we forcefully log him out then he should get logged out
- if he logs in from another device or platform the apps running should be logged out

## Web Service #2 – Sign Up from app itself

Right now a user has to create his account from our website. However using this web service he can create his account from the app itself.

## Web Service #3 – Forget Password

A user can reset his password from the app itself. The password reset will be mailed to his default email id.

## Web Service #4 – App Update Notification

The app will check for an updated version. If found and mandatory update is true the app will force users to update and won't work until the user updates it. This is a very simple web service.

## Web Service #5 – Fix/Enhance Favourites Remember

App will store and retrieve favourites stored by user based on a segment.

## Web Service #6 – Request Call Back

The web service will store user's number in DB and intimate us for a call back. It is a very simple work.

## Web Service #7 – Nifty Expert Open Trades

Web service will show open trades for Nifty Expert app.

## Web Service #8 – Nifty Expert Closed Trades

Web service will show closed trades for Nifty Expert app.

## Web Service #9 – Nifty Expert Trade History

Based on trade selected service will fetch trades and related details for Nifty Expert app.

## Web Service #7 – Nifty Expert Open Trades

DB: admin\_products

Table: NiftyExpert

### Logic

> Using select query and get all data from table where NewTrade = True and CloseTrade = False Order by Entry Date Descending

> In the data that you get please check for invalid trade:

If Invalid = True and EntryDate <> Today's date then do not show that / skip that record

### Output:

JSON output which should show all table fields up to Expiry. After that show value of Pending and Invalid fields.

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## Web Service #8 – Nifty Expert Closed Trades

### PART 1

DB: admin\_products

Table: NiftyExpert

### Logic

> Using select query get all data from table where NewTrade = True and CloseTrade = True and Invalid=False Order by Entry Date Descending

**Output:** JSON output which should show all table fields up to Expiry.

### PART 2

Parameter : Accept Start Date and End Date as dates (without time)

### Logic

> Using select query get all data from table where NewTrade = True and CloseTrade = True and Invalid=False and EntryDate between Start And End Date, Order by Entry Date Descending

### Part 3

Parameter: Show last X records so take a number

### Logic

> Using select query get all data from table where NewTrade = True and CloseTrade = True and Invalid=False, Order by Entry Date Descending Limit X

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## Web Service #9 – Nifty Expert Trade History

### PART 1

DB: admin\_products

Table: NiftyExpert

#### Logic

**Input:** RecID // this is record id

> Using select query get all data from table where RecID = Record ID passed as input

> Also fire second query which is: Select from table where LinkID=Record ID (RecID) and Invalid = False  
Order by EntryDate

Here if Trade = SELL then multiple Lot and Qty by -1

**Output:** JSON output which should show all table fields up to Expiry.

### PART 2

Table: NExpMsg

Get Message History for that record.

#### Logic

**Input:** RecID // this is record id

> Using select query get all data from table where RecID = Record ID passed as input order by MsgDate  
Descending

**Output:** JSON output which should show all table fields

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