

**17 row collapsed inscreen shot.**

## **For Dashboard**

**All dynamic ‘numbers + chart layout’ hybrid**

**All adjustable with device screen size, mobile landscape, laptop & pc etc**

**Header at center ‘OPTION BUYER’s DASHBOARD’ bold and big font & make it fixed row, will not scroll up or down.**

**In 2<sup>nd</sup> row = make it fixed row, will not scroll up or down with chart, small font golden color“PRIMEXA Learning Series Whatsapp 9836001579”- at center below header. At right side Add small ‘admin’/‘refresh’/‘logout’ /button.**

**‘admin’ button visible to superadmin only. ‘**

**Subheader block1- 3rd row** = make it fixed row, will not scroll up or down, all dynamic numbers , from left side little away from edge make pivot..... S1... S2... R1... R2. will be updated as per formula & live . time frequency= dropdown & auto refresh with frequency ' for1m/ 3m/5m/10m/15m/30m/1hr'/ 'mood index' box with colored bar shows bull% bear% neutral% /'next update / 'Olsput' when oi spurt = >+9.5% display

**Subheader BLOCK 2- 4<sup>th</sup> row** = it should scroll up & down with chart. medium font , from left side little away from edge make -box look tab ' nifty 50/banknifty/finnifty/midcapnifty/sensex/banksex /fno/ IV / 'monthlyrange' box updated live with formula/ updated live with formula / 'weekly range' box updated live with formula /'daily range 'box updated live with formula,

All box look tab- Nifty50 shows current market spot price with 'dropdown flag' /banknifty shows current market spot price with 'dropdown flag' /finnifty shows current market spot price with 'dropdown flag' /midcapnifty shows current market spot price with 'dropdown flag' /sensex shows current market spot price with 'dropdown flag' /bankex 'shows current market spot price with 'dropdown flag' to see upcoming expiry & on each box tab shows current market spot price for each when live & connected to firebase. No dropdown flag' in fno and it will be connected to separate fno page in future time.

adjustable with device screen size, mobile landscape only, laptop & pc etc

**subheading block 3 – 5<sup>th</sup> row** = it should scroll up & down with chart.At center ' NIFTY 50 ' by default, can be switched to 'banknifty' /'finnifty' /'midcapnifty' /'sensex'/bankex . 'fno ' will be connected to different page. left side 50% away green colored ' CE' and right side 50% away red colored 'PE'

**chart block4 - 6<sup>th</sup> row**= (no symbol use word)at center column below 'nifty50' , 'Strike price' above / small font 'PCR' below merged in single center column",

and Mirror image title in same row , sequence green closed words in call left side and red coloured words in put right side. 'buit up/VOLume/delta /OI/Olchg/Olchg%/'LTP above 'ltp chg' below (use -neg red and pos+ green) small font merged in single column'/IV on top and +TVitm on bottom merged colume- total 9 column for CE and 9 colume for PE + one center colume..

Both side Last column 'Built up' will be filled with dummy ' long built up ' green color, short cover' green color ,long unwind' in red color, ' 'short buildup' in red color etc, will be upgraded with market .

maintain mirror image chart layout for 17 rows below, all filled with dummy white numbers till live.

no symbol, use word like delta/ltpchg/oi%/oichg, & Adjustable with device screen size. center strike or number 9th strike 'price+pcr' merged row should have golden dynamic under line as that will be spot price after live and it will move with change in market spot price.

Bottom row block5- 24-25<sup>th</sup> row : devided into dynamic boxes for = ' vol CE/'vol PE/total vol/ 'Call OI'/ 'Put Oi' /Total OI'/ 'PCR' /'alpha ' /rho/beta'/gama'/delta' dynamic with market or formula. White color numbers.

Block 6- 26<sup>th</sup> to 28<sup>th</sup> row observation/suggestion for

monthly target bullish (green color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup> and bearish (red color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup>

Weekly target bullish (green color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup> and bearish (red color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup>

Daily target bullish (green color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup> and bearish (red color) 1<sup>st</sup> /2<sup>nd</sup> /3<sup>rd</sup>

Last line 29<sup>th</sup> row =" warning – This dashboard is for learning and research purpose" in golden medium font

---

---

**Dynamic colour use logic = upgrade with live market**, highest volume and highest OI in call side highlight with 'green' & highest volume and highest OI in put side highlight with 'Red'.

Gradually increasing OI & OI% in CE or call side will be highlighted with light 'green' when > 60% and Gradually increasing OI & OI% in PE or put side will be highlighted with 'pink' when > 60%.

Gradually decreasing OI & OI% in CE or call side will be highlighted with 'yellow' when < 60% and Gradually decreasing OI & OI% in PE or put side will be highlighted with 'yellow' when < 60%.

Whenever OI spurt =>+9.5% show & highlight with yellow. Center strike row shows market or sopt price will have golden underline dynamic with spot price movement.

For superadmin allow email" [primexa1967@gmail.com](mailto:primexa1967@gmail.com)"

For admin –prior approval 'role' basis.

---

## ⚙️ VIX-Based Market Range Projection Model

### Base Inputs

Symbol	Meaning
$C$	Previous day's close
$V$	Current VIX (volatility index)
$D$	Number of trading days in the target period
$Y$	Number of trading days in a year ( $\approx 365$ )

### 1 Convert Volatility to Decimal

$$v = \frac{V}{100}$$

### 2 Adjust for Time Period

$$t = \sqrt{\frac{D}{Y}}$$

### 3 Compute Expected Range

$$R = C \times v \times t$$

This gives the expected movement ( $\pm R$ ) from the previous close.

### 4 Define Range Levels

$$\text{Upper Range} = C + R$$

$$\text{Lower Range} = C - R$$

### 5 Define Breakout Targets

Let  $G = 2R$

$$\text{Upside Target} = C + 3R$$

$$\text{Downside Target} = C - 3R$$

Optional intermediate targets:

Type	Formula
First Target	$C \pm R$
Second Target	$C \pm 2R$
Third Target	$C \pm 3R$

### Practical Values for D

Period	$D$	$\sqrt{D/365}$
Daily	1	0.0523
Weekly	5	0.1171
Monthly	30	0.2867

### Example (Using NIFTY-style values)

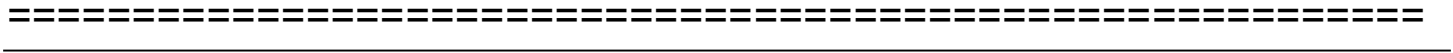
Given:

$$C = 24426.85, V = 17.86$$

Period	$R = C \times (V/100) \times \sqrt{D/365}$	Upper Range	Lower Range
Daily	228	24 655	24 199
Weekly	510	24 937	23 917
Monthly	1 250	25 676	23 177

### Final Compact Formula Set

Output	Formula
Range (R)	$= C \times (V/100) \times \sqrt{D/365}$
Upper Range	$= C + R$
Lower Range	$= C - R$
Upside Target	$= C + 3R$
Downside Target	$= C - 3R$



## 1. Delta ( $\Delta$ )

Measures how much the **option price** changes when the **underlying asset price** changes.

$$\Delta_{\text{call}} = N(d_1)$$
$$\Delta_{\text{put}} = N(d_1) - 1$$

Interpretation:

- Call  $\Delta \approx 1 \rightarrow$  behaves like the stock.
  - Put  $\Delta \approx -1 \rightarrow$  behaves opposite to the stock.
- 

## 2. Gamma ( $\Gamma$ )

Measures how much **Delta** changes as the stock price moves — the curvature of the option's value.

$$\Gamma = \frac{N'(d_1)}{S_0 \sigma \sqrt{T}}$$

where  $N'(d_1) = \frac{1}{\sqrt{2\pi}} e^{-d_1^2/2}$

Interpretation:

High Gamma = Delta moves fast (near the money, close to expiry).

---

## 3. Theta ( $\Theta$ )

Measures how much the **option's price decays** as time passes (time decay).

$$\Theta_{\text{call}} = -\frac{S_0 N'(d_1) \sigma}{2\sqrt{T}} - r K e^{-rT} N(d_2)$$
$$\Theta_{\text{put}} = -\frac{S_0 N'(d_1) \sigma}{2\sqrt{T}} + r K e^{-rT} N(-d_2)$$

Interpretation:

Theta is almost always **negative** for long options — value melts with time.

---

## 4. Vega ( $\nu$ )

Measures how much the **option price** changes when **volatility** ( $\sigma$ ) changes.

$$\nu = S_0 N'(d_1) \sqrt{T}$$

Interpretation:

High Vega = highly sensitive to implied volatility — typical for ATM options.

---

## 5. Rho ( $\rho$ )

Measures how much the option price changes when the interest rate ( $r$ ) changes.

$$\rho_{\text{call}} = KTe^{-rT}N(d_2)$$
$$\rho_{\text{put}} = -KTe^{-rT}N(-d_2)$$

## 6. Alpha ( $\alpha$ ) and Beta ( $\beta$ ) in Trading Context

They're not Greeks in the Black-Scholes sense — but traders use them differently:

Symbol	Formula	Meaning
$\alpha$ (Alpha)	$\alpha = R_i - [r_f + \beta(R_m - r_f)]$	Excess return (performance vs. risk-adjusted benchmark)
$\beta$ (Beta)	$\beta = \frac{\text{Cov}(R_i, R_m)}{\text{Var}(R_m)}$	Market sensitivity or hedge ratio

### Deep In-the-Money (ITM) Call Option:

$$C = S_0N(d_1) - Ke^{-rT}N(d_2)$$

When  $S_0 \gg K$ :

- $\ln(S_0/K)$  is large  $\rightarrow d_1, d_2$  both large and positive.
- $N(d_1) \approx 1$  and  $N(d_2) \approx 1$ .

So the formula simplifies to:

$$C \approx S_0 - Ke^{-rT}$$

This means:

- The option is almost equivalent to owning the stock minus the present value of the strike.

### Deep In-the-Money (ITM) Put Option:

$$P = Ke^{-rT}N(-d_2) - S_0N(-d_1)$$

When  $S_0 \ll K$ :

- $d_1, d_2$  both large and negative.
- $N(-d_1) \approx 1$  and  $N(-d_2) \approx 1$ .

So it simplifies to:

$$P \approx Ke^{-rT} - S_0$$

Which means:

- The option is nearly equivalent to receiving the strike's present value minus the current stock price.

In short:

Type	Deep ITM Simplification	Intuition
Call	$C \approx S_0 - Ke^{-rT}$	Like owning the stock minus PV of strike
Put	$P \approx Ke^{-rT} - S_0$	Like shorting the stock plus PV of strike



This dashboard will fetch data/ calculated result from firebase and display on dashboard.this will be connected to firebase project name:

fnodatadashboardstreamlite

Project ID: fnodatadashboardstreamlite

databaseURL: "<https://fnodatadashboardstreamlite-default-rtdb.asia-southeast1.firebaseio.com>",

Project number:

877238528573

Login page=

---

1. Blue/black loginpage
2. Heading "Option Buyers' Dashboard"
3. Sub heading ' Primexa Learning series'
4. Icon-144 png for login
5. My webapp link will have 'download app"
6. Login button.
7. New user email will be verified by google → go to registration page  
→ register with name ,google verified email & connected mobile  
no. → registered for 30 days free member → with any single  
device → after expiry of 30 days → go to plan & pay →  
accept to pay → he will get otp verification for email & mobile no,  
then receive pay → get email notification → send email

- notification with payment details - start with login again with email only .free user after 30 days with same mobile no & email will never be free user. They will be asked to become paid member if not , refused to login with same email+mobile no+name and send to paid plan page.
8. After becoming paid user – at a time 2 device with email verification can use.
  9. after login all member goes to dashboard except admin.
  10. Only superadmin will have button to go admin page & back.
  11. On prior approval of email & ‘role’ in admin panel , he be able to login to admin page only with prior approved in admin page & google verified email.
  12. Superadmin email = [primexa1967@gmail.com](mailto:primexa1967@gmail.com) will be verified once with google then will have access to all corner with upto 3 device at a time.
  13. Change device after 3 device ,means 4<sup>th</sup> device will be verified with with SMS.
  14. If device changed, No auto login, always ask, login with google verified email.
- 

## ❓ ADMIN PAGE — LOGIC LIST

### ❑ Functional Flow

1. Header with:
  - Title: “ADMIN DASHBOARD”.
2. Buttons on header right side.:
  - Refresh Data
  - Admin → Dashboard & back.(authorized for Superadmin only)
  - Logout
3. Counter bar showing:
  - Total Users
  - Free Users
  - Paid Users
  - Expired Users
  - Total Revenue & Tax (tax percent set & upload by admin time to time.)
4. Settings Section:
  - Free plan enable for 30 days then expire.
  - Update plan rates (90/180/365 days).
  - Update payment link & QR code.

- Reset button for payment configuration.
  - 
  - 5. User Management Section:
    - Search bar for users by name/email/mobile.
    - Filter (All / Free / Paid / Expired).
    - List of users with plan and expiry.
  - 6. Logs Section:
    - Recent admin actions.
    - Payment updates.
    - Device changes.
- 

## ☐ **Visual Elements / Icons**

1. Refresh button icon (□).
  2. Logout button icon (□).
  3. Admin to dashboard & back button (□).
  4. Revenue graph or ₹ symbol near totals.
  5. QR icon preview for payment display.
  6. Payment link upload & saved button.
  7. Plan dropdown with money INR
  8. Counting bar counter
  9. RESET button for plan/payment/
-