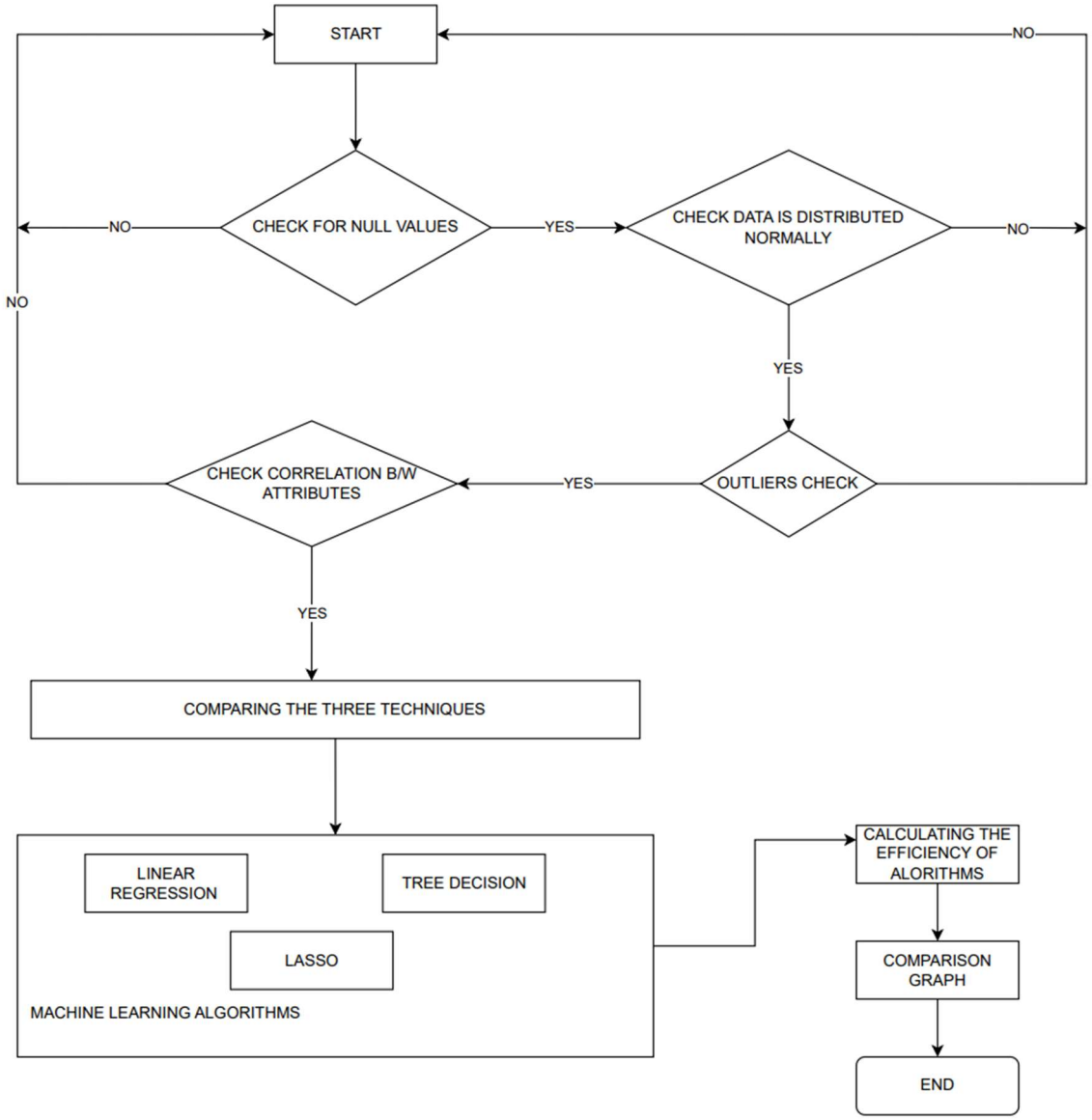
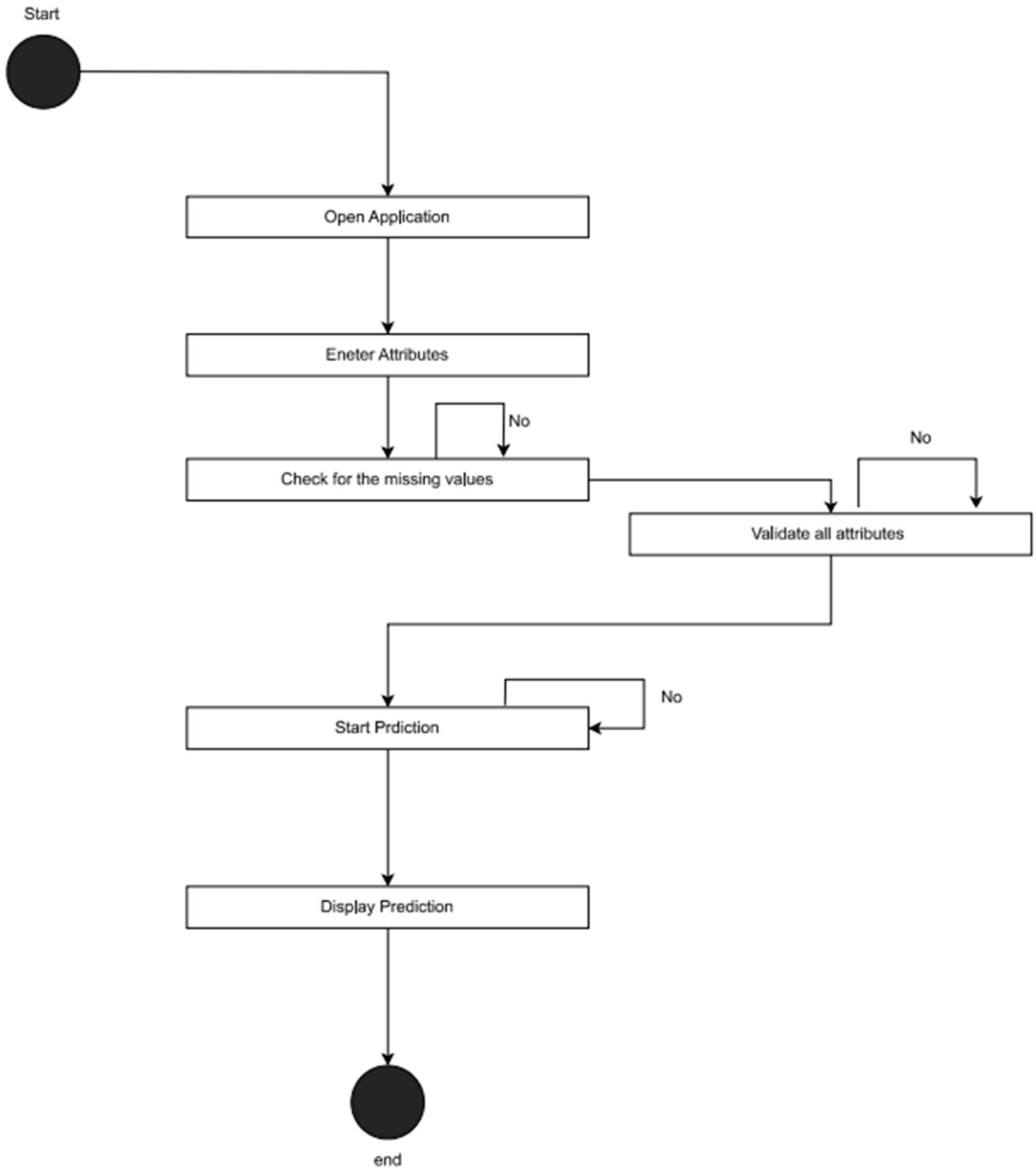
New System flow Chart:



Activity diagram:



Data Set :

	area_type	availability	location	size	society	total_sqft	bath	balcony	price
0	Super built-up Area	19-Dec	Electronic City Phase II	2 BHK	Coomee	1056	2.0	1.0	39.07
1	Plot Area	Ready To Move	Chikka Tirupathi	4 Bedroom	Theanmp	2600	5.0	3.0	120.00
2	Built-up Area	Ready To Move	Uttarahalli	3 BHK	NaN	1440	2.0	3.0	62.00
3	Super built-up Area	Ready To Move	Lingadheeranahalli	3 BHK	Soiewre	1521	3.0	1.0	95.00
4	Super built-up Area	Ready To Move	Kothanur	2 BHK	NaN	1200	2.0	1.0	51.00
5	Super built-up Area	Ready To Move	Whitefield	2 BHK	DuenaTa	1170	2.0	1.0	38.00
6	Super built-up Area	18-May	Old Airport Road	4 BHK	Jaades	2732	4.0	NaN	204.00
7	Super built-up Area	Ready To Move	Rajaji Nagar	4 BHK	Brway G	3300	4.0	NaN	600.00
8	Super built-up Area	Ready To Move	Marathahalli	3 BHK	NaN	1310	3.0	1.0	63.25
9	Plot Area	Ready To Move	Gandhi Bazar	6 Bedroom	NaN	1020	6.0	NaN	370.00
10	Super built-up Area	18-Feb	Whitefield	3 BHK	NaN	1800	2.0	2.0	70.00
11	Plot Area	Ready To Move	Whitefield	4 Bedroom	Prrry M	2785	5.0	3.0	295.00
12	Super built-up Area	Ready To Move	7th Phase JP Nagar	2 BHK	Shncyes	1000	2.0	1.0	38.00
13	Built-up Area	Ready To Move	Gottigere	2 BHK	NaN	1100	2.0	2.0	40.00
14	Plot Area	Ready To Move	Sarjapur	3 Bedroom	Skityer	2250	3.0	2.0	148.00
15	Super built-up Area	Ready To Move	Mysore Road	2 BHK	PrntaEn	1175	2.0	2.0	73.50
16	Super built-up Area	Ready To Move	Bisuvanahalli	3 BHK	Prityel	1180	3.0	2.0	48.00
17	Super built-up Area	Ready To Move	Raja Rajeshwari Nagar	3 BHK	GrrvaGr	1540	3.0	3.0	60.00
18	Super built-up Area	Ready To Move	Ramakrishnappa Layout	3 BHK	PeBayle	2770	4.0	2.0	290.00
19	Super built-up Area	Ready To Move	Manavata Tech Park	2 BHK	NaN	1100	2.0	2.0	48.00

Before Data Cleaning

	location	total_sqft	bath	price	bhk
0	1st Block Jayanagar	2850.0	4.0	428.0	4
1	1st Block Jayanagar	1630.0	3.0	194.0	3
2	1st Block Jayanagar	1875.0	2.0	235.0	3
3	1st Block Jayanagar	1200.0	2.0	130.0	3
4	1st Block Jayanagar	1235.0	2.0	148.0	2
5	1st Block Jayanagar	2750.0	4.0	413.0	4
6	1st Block Jayanagar	2450.0	4.0	368.0	4
8	1st Phase JP Nagar	1875.0	3.0	167.0	3
9	1st Phase JP Nagar	1500.0	5.0	85.0	5
10	1st Phase JP Nagar	2065.0	4.0	210.0	3
12	1st Phase JP Nagar	2059.0	3.0	225.0	3
13	1st Phase JP Nagar	1394.0	2.0	100.0	2
14	1st Phase JP Nagar	1077.0	2.0	93.0	2
15	1st Phase JP Nagar	1566.0	2.0	180.0	2
16	1st Phase JP Nagar	840.0	2.0	50.0	1
17	1st Phase JP Nagar	1590.0	3.0	131.0	3
18	1st Phase JP Nagar	2180.0	3.0	210.0	3
19	1st Phase JP Nagar	1180.0	2.0	88.5	2
20	1st Phase JP Nagar	1200.0	2.0	86.0	2
21	1st Phase JP Nagar	1394.0	2.0	85.0	2

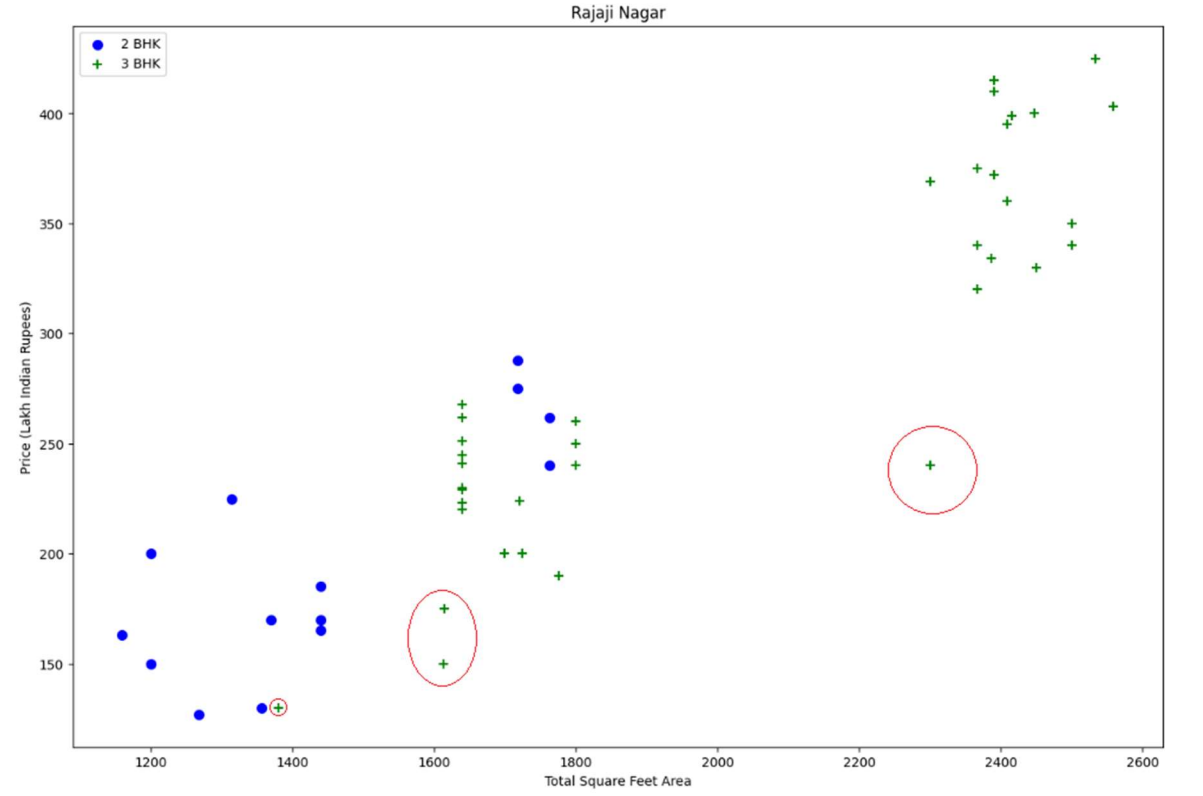
After data Cleaning

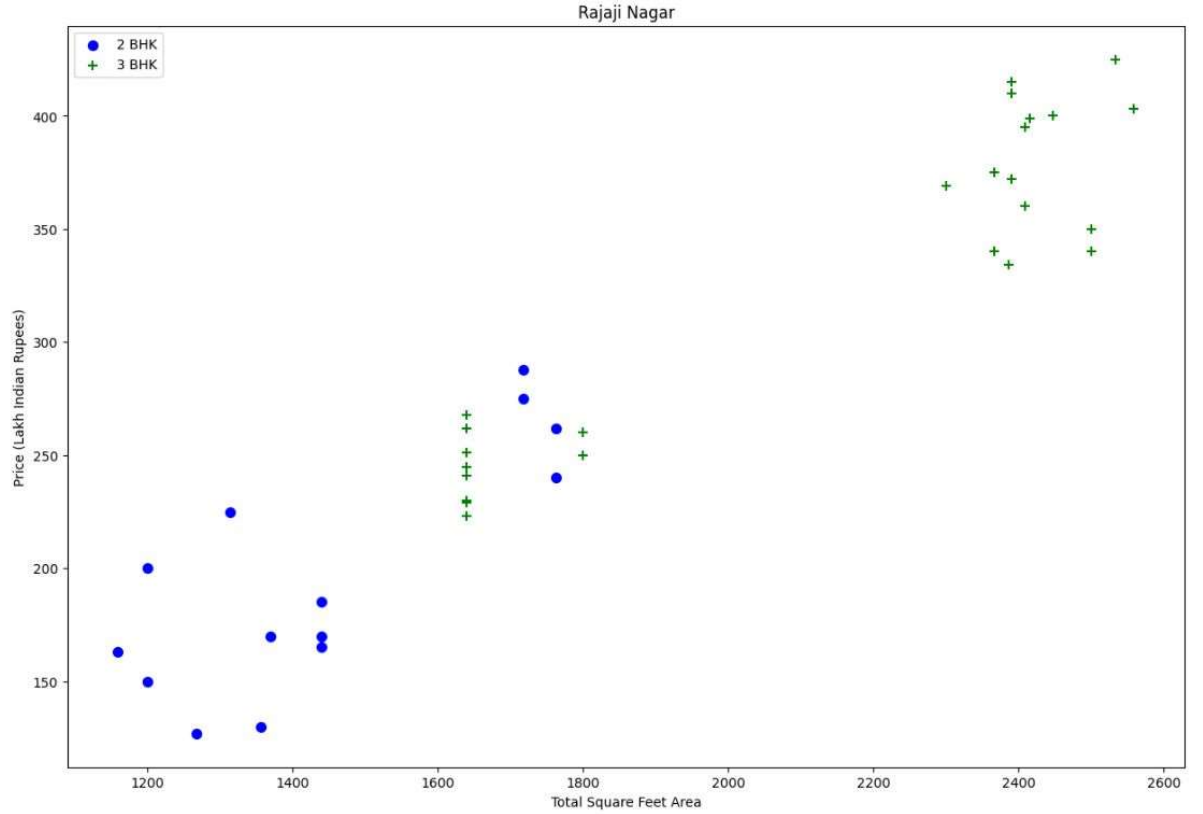
	location	total_sqft	bath	price	BHK	1st Block Jayanagar	1st Block Koramangala	1st Phase JP Nagar	2nd Phase Judicial Layout	2nd Stage Nagarbhavi	...	Vijayanagar	Vishveshwarya Layout	Vishwapriya Layout	Vittasandra	Whitefield	Yelachenahalli
0	1st Block Jayanagar	2850.0	4.0	428.0	4	True	False	False	False	False	...	False	False	False	False	False	False
1	1st Block Jayanagar	1630.0	3.0	194.0	3	True	False	False	False	False	...	False	False	False	False	False	False
2	1st Block Jayanagar	1875.0	2.0	235.0	3	True	False	False	False	False	...	False	False	False	False	False	False
3	1st Block Jayanagar	1200.0	2.0	130.0	3	True	False	False	False	False	...	False	False	False	False	False	False
4	1st Block Jayanagar	1235.0	2.0	148.0	2	True	False	False	False	False	...	False	False	False	False	False	False

5 rows × 259 columns

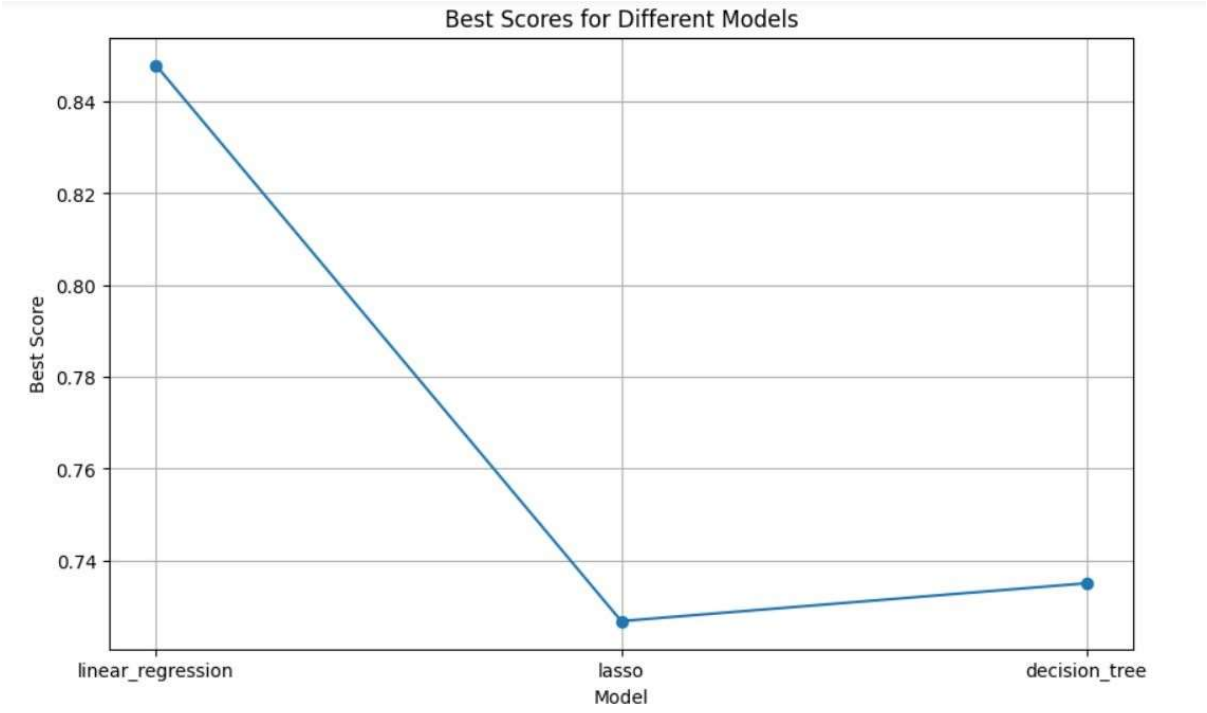
After hot Encoding data set sample

Outlier:

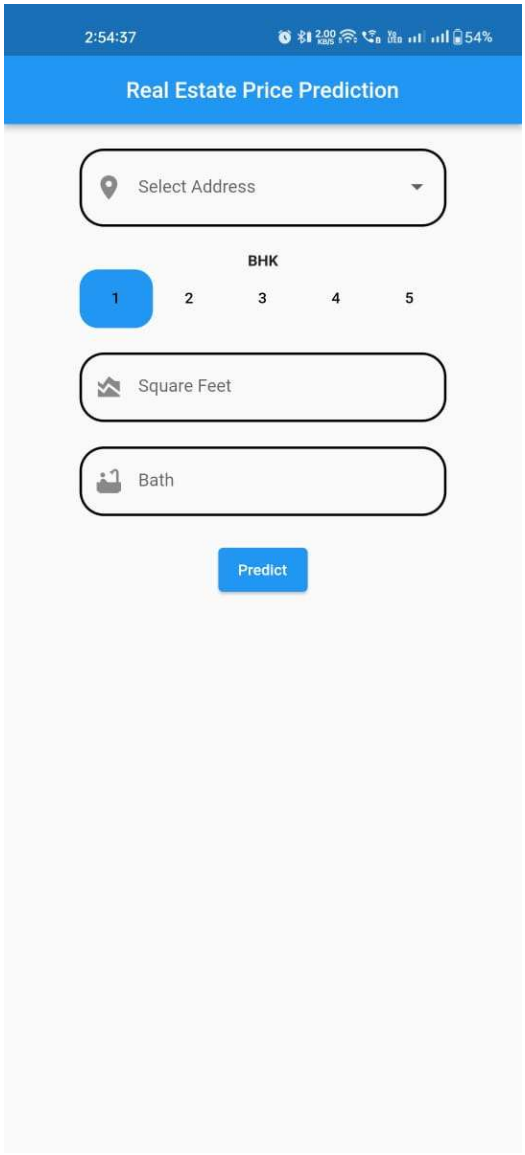

Rajaji Nagar
2 BHK
3 BHK
Price (Lakh Indian Rupees)
Total Square Feet Area
150
200
250
300
350
400
1200
1400
1600
1800
2000
2200
2400
2600


Rajaji Nagar
2 BHK
3 BHK
Price (Lakh Indian Rupees)
Total Square Feet Area
150
200
250
300
350
400
1200
1400
1600
1800
2000
2200
2400
2600

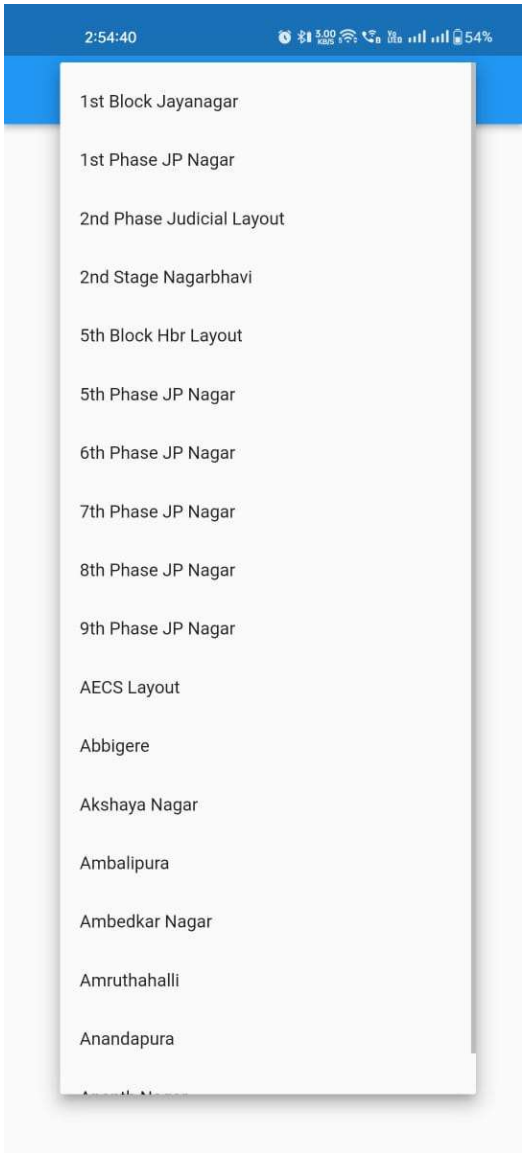
Model Comparison :



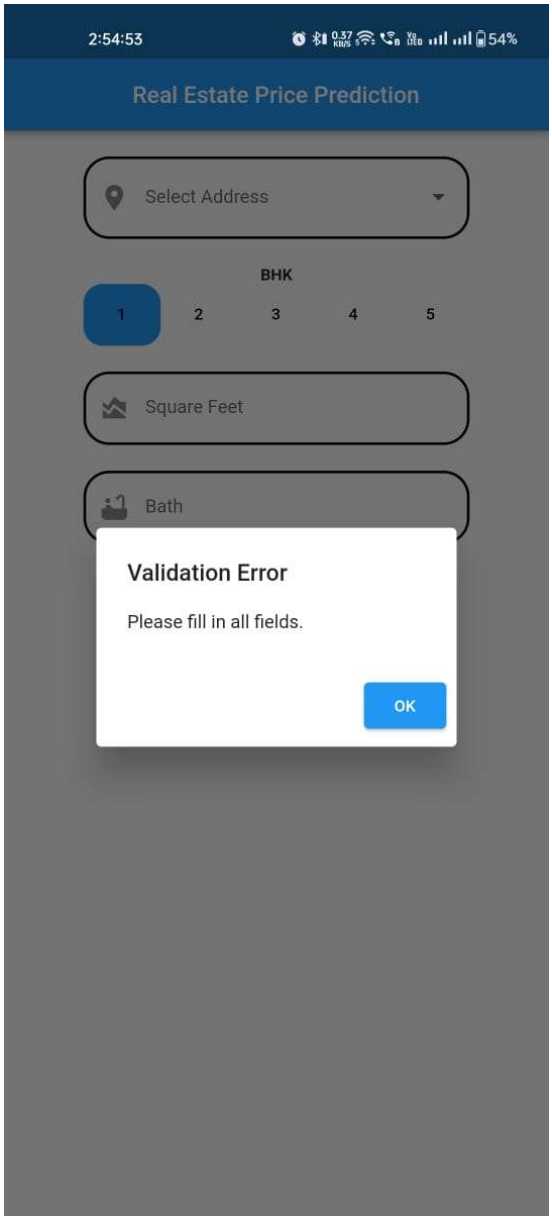
Screenshot of the APK :

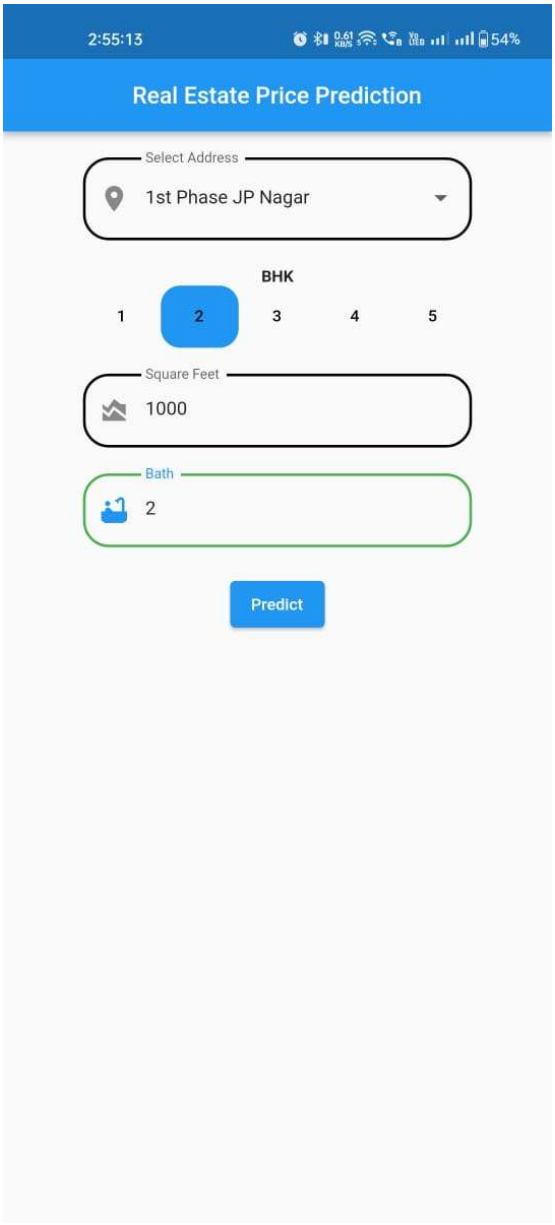


Main Page

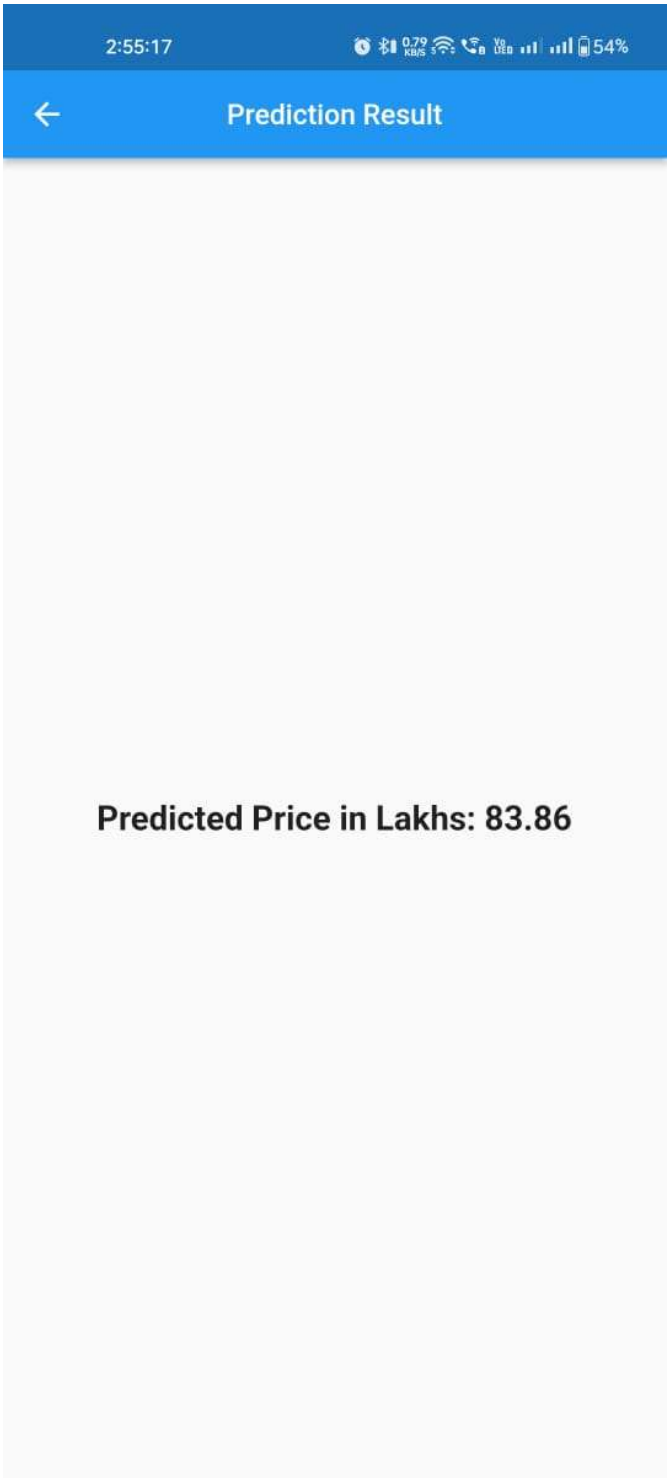


Area Available


2:54:53
54%
Real Estate Price Prediction
Select Address
BHK
1
2
3
4
5
Square Feet
Bath
Validation Error
Please fill in all fields.
OK


2:55:13
54%
Real Estate Price Prediction
Select Address
1st Phase JP Nagar
BHK
1
2
3
4
5
Square Feet
1000
Bath
2
Predict

Validation



Predicted Price