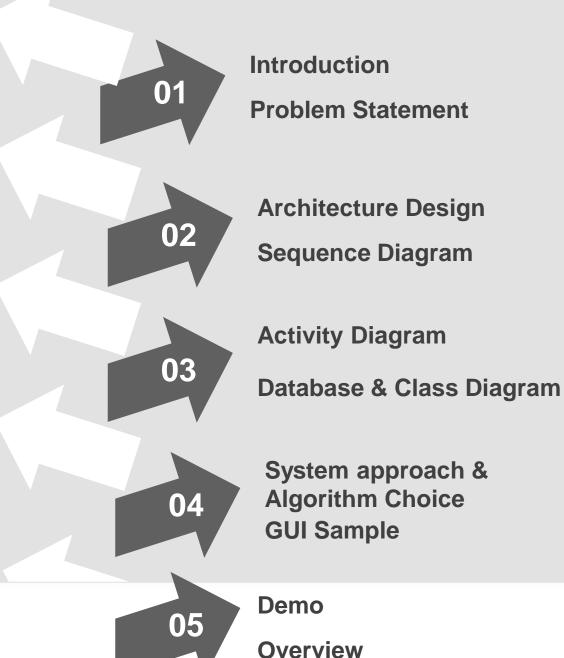


Joy Abdelmasseh – Mark Nabil – Mark Samir – Nermeen Haggag

Supervised by: Dr. Mohammed El gazzar

Teacher Assistant: Eng. Haytham Metawie







Introduction

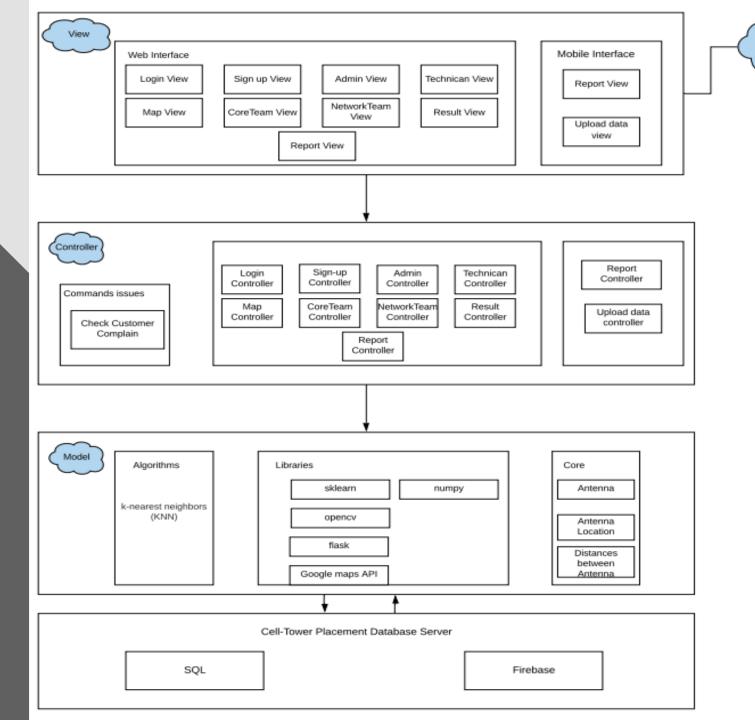
- The main purpose of Cell Tower Placement System is to find the best location for pointing a new antenna.
- To avoid time consuming and help companies to decrease the cost of surveys



Problem Statement

Finding the accurate place to fix over cell tower station costs mobile operators big chunks of money. Our target is to provide automated cell tower allocate system

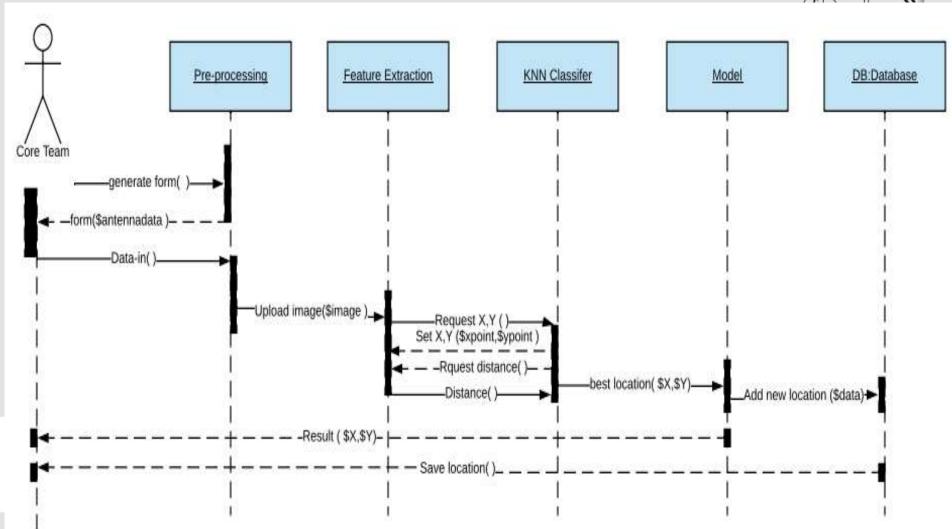




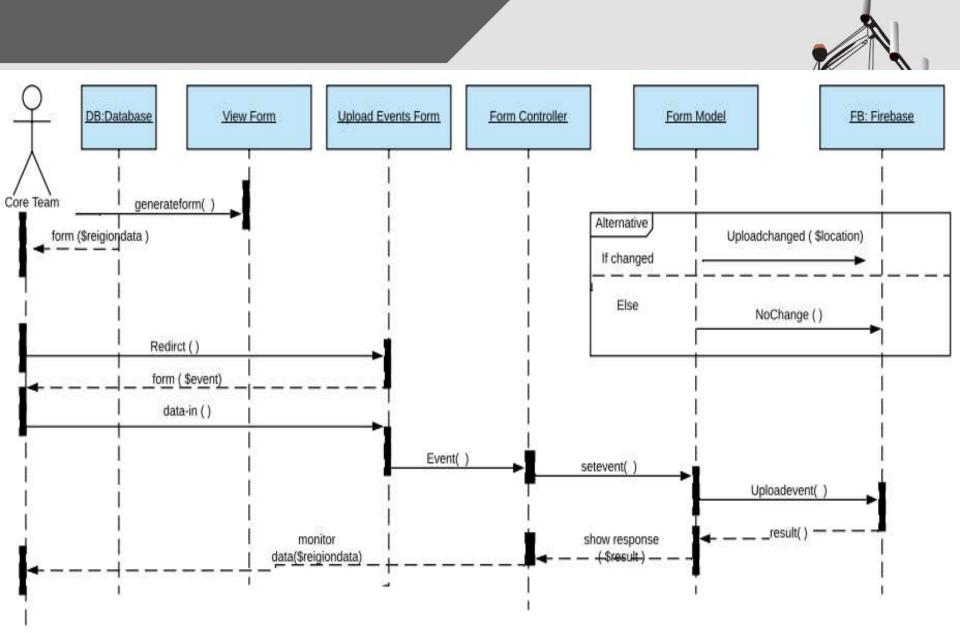
Cloud

Sequence Diagram (1/3)



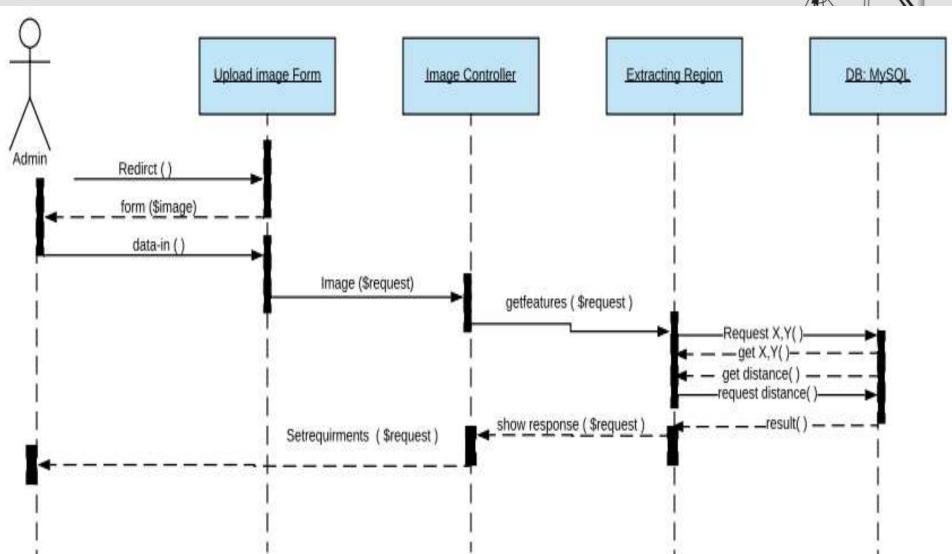


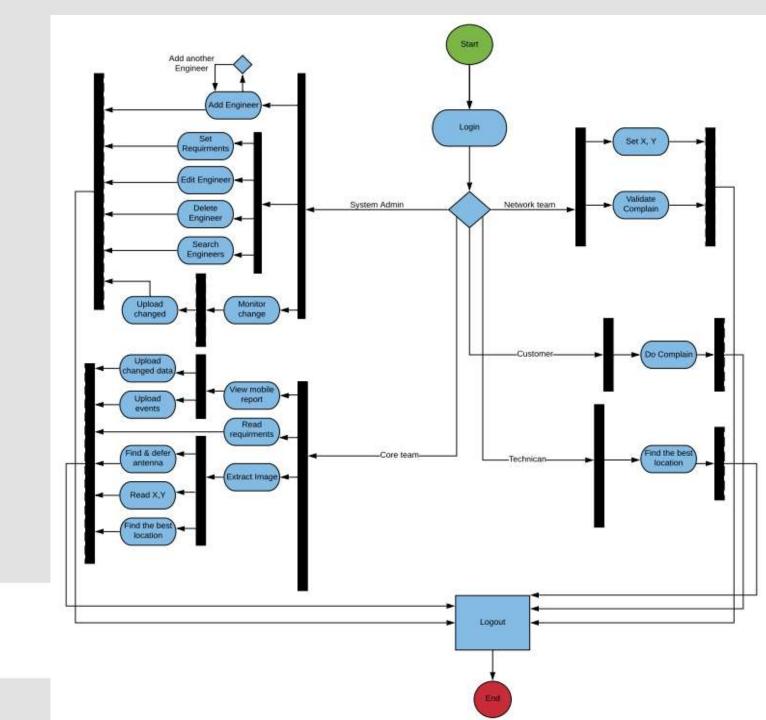
Sequence Diagram (2/3)

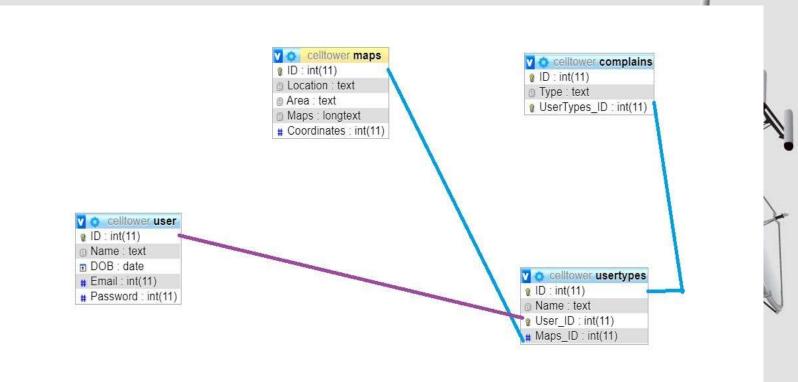


Sequence Diagram (3/3)

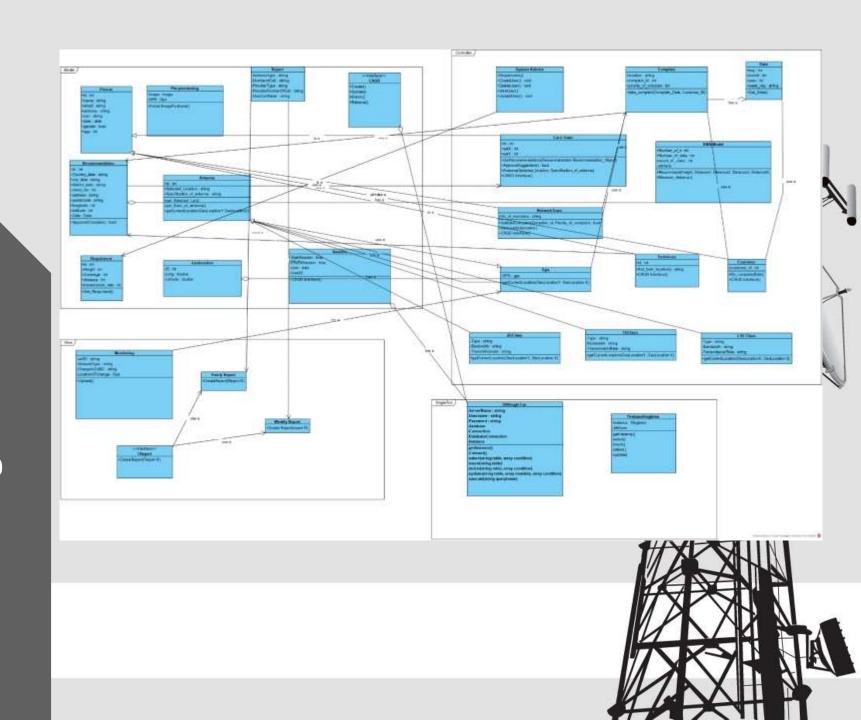






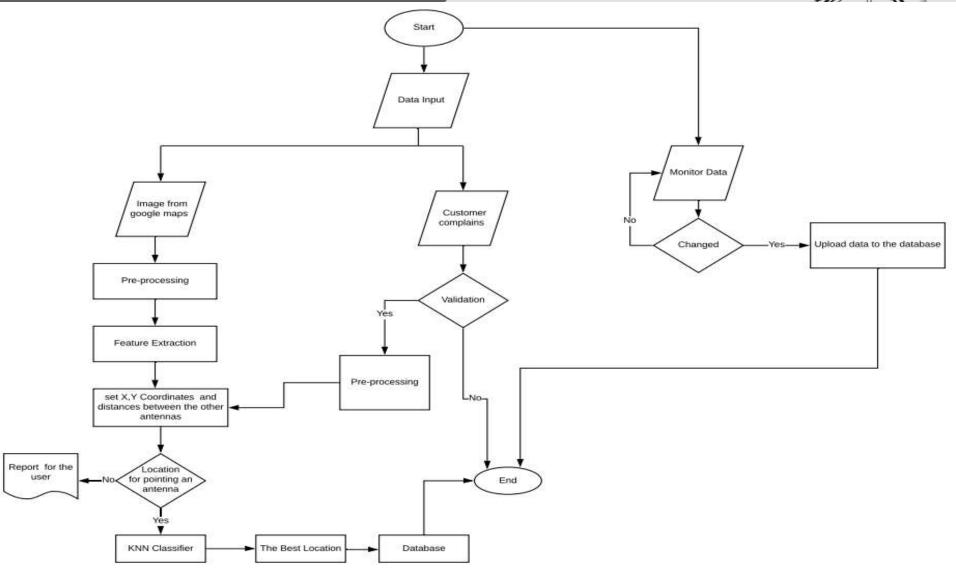




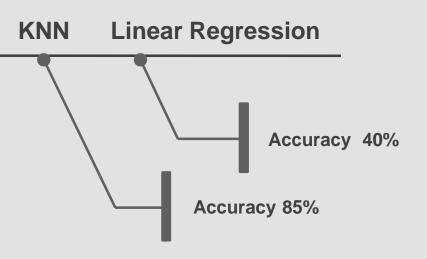


System Approach



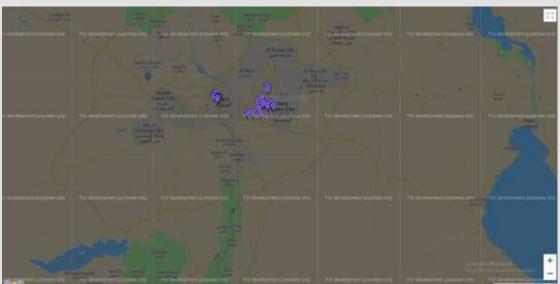


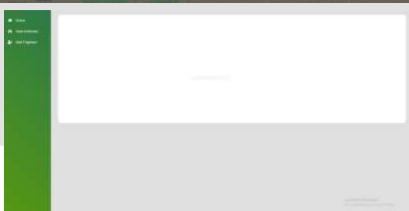
Algorithm Choice





GUI Sample







Demo





Activate Windows



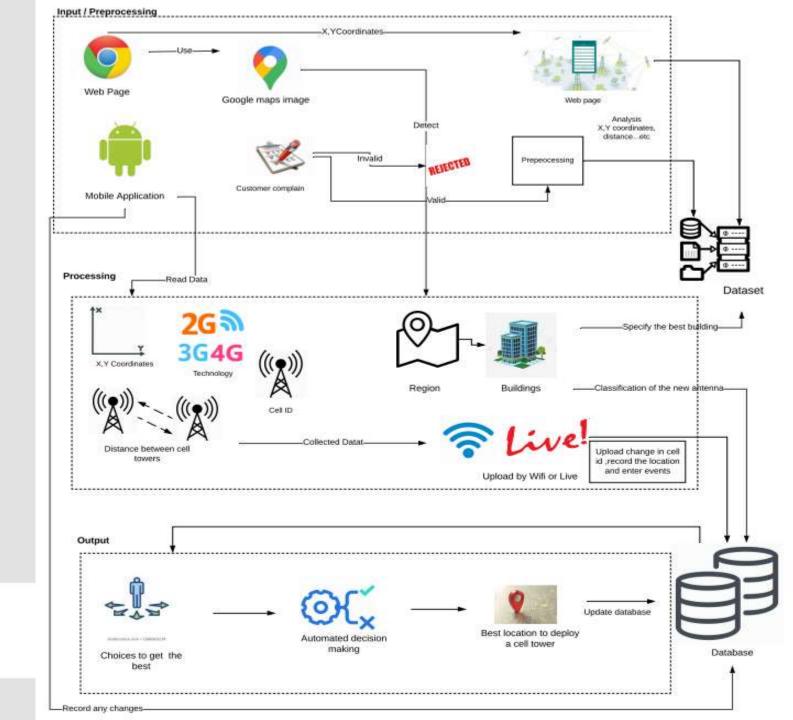


Dataset:

																/ H	
2256	10.038539	31.169965	Ensulat	40	El Mohandessen	513.17	692.19	1570	3070	3200	733	Enisabet	40	50.17	2677137	111/161	61,106.53
- 2	30.058974	31,21508	Vodulans	30	El Mohandessen	78.27	347.62	1060	1190	1220	210006	Vedafons	40	78.27	26" / 13"	317 / 167	61,106.53
4632	30.041707	31.195239	Vodafone	30	El Mohandesseo	27.11	52.72	56.84	215.05	300.43	6404	Vedafone	36	27.11	26" / 13"	31° / 16°	61,100.33
467	30,052146	31,198951	Vedafane	10	El Mohandessen	147.85	237.11	960.71	1050	1000	3081	Vadafone	30	147.83	26" (13"	31*/36*	61,106.53
10056	30.029019	31.207263	Orange	46	El Mohandessen	529.4	664.84	613.67	736.13	681.57	3452	Etinalst	20	329.4	267 / 137	311/16	61,106.53
3952	30.043526	31.194472	Vodafene	30	El Mohandessen	93.83	158.34	163.22	139.66	215.42	6438	Vedafone	30	93.85	267 : 137	31" / 16"	61,106.33
10055	30.028321	31.199636	Orange	86	El Mohandessen	138.99	325.42	736.29	1240	1490	10759	Orange	46	138.99	26" / 13"	31" (16"	61,108.53
5661	30.04\$337	31.218203	Orange	30	El Mohandessen	46.53	65.91	104.78	103.3	121.33	200134	Vodsfone	40	46.93	26" / 13"	319 / 169	61,106.53
2159	30.039466	31.217236	Orange	30	El Mohandessen	533.91	521.59	260.53	265.95	380.31	395	Vodafone	20	200.13	267 / 137	31"/16"	61,506.53
6438	30.044338	31.194628	Vodafone	36	El Mohandessen	93.85	243,47	247.5	276.46	300.82	3952	Vodafone	30	93.85	30" / 13"	31"/16"	61,106.53
4122	30.035334	31.213279	Overige	36	El Mohandessen	71.66	146.93	106.64	155.52	198.37	123	Orange	30	71.66	26" / 13"	31° / 16°	61,106.53
4581	30.047863	31.219338	Orange	30	El Mohandessen	121.09	138.55	119.36	236	223.34	1371	Eticalet	40	119.36	26" / 13"	31" / 16"	61,106.53
30t	30.090222	31.185667	Etisalat	10	El Mohandessen	823.24	1510	1560	1680	2160	1761	Etisalat	40	823.24	26" / 13"	31" / 16"	61,106.53
1761	30,060165	31.19422	Etisalat	40	El Mohandessen	823.24	830.69	1070	1000	1780	301	Etisələt	4G	823.24	36" / 13"	31° / 16°	61,106.53
10173	30.03483	31.219077	Orange	40	El Mohandessen	165.64	319.89	383.93	449.1	344.8	1410	Orange	30	168.64	26" / 13"	31*/16*	61,166.53
2880	30.025966	31.201313	Etisalet	46	El Mohandessen	235.07	325.2	664.77	1190	1760	10159	Orange	46	235.67	261 / 131	311/161	61,100.53
395	30:037697	31.216847	Vodafone	20	El Mohandessen	69.08	200.04	287.49	378.08	216.46	1359.	Etisalat	30	89.08	26" 13"	31" / 16"	61,105.53
310006	30.05828	31.215189	Vodafane	40	El Mobandessen	77.91	471.2	980,11	1080	1100	2	Vadafone	20	27.91	26"/13"	31"/36"	61,009.53
33057	31.236529	29-953739	Enodat	40	Alexandria	154.89	293.00	320.83	435,84	615.50	4561	Vodafone	30	154.89	221/121	25" / 15"	24,540.28
333t0	31.243103	29.96161	Eticulet	40	Alexandria	482.00	121.72	071.43	91739	937.20	3018	Orange	30	452.09	22° / 12°	25" / 15"	24,540.28
33061	31.252204	29.971408	Ensolut	4G	Aleundria	451.65	162.23	825.80	3980	2350	3063	Etisalar	26	451.65	22" / 12"	23" / 13"	24,340.28
33065	31,256918	29.97815	Ensalat	40	Alexandria	828.92	1270	1380	1850	2190	33041	Vodafone	4G	828.92	22" / 12"	25"/15"	24,540.28
3829	31.196621	29.907171	Orange	30	Alexandra	1220	344.51	258.82	424.61	1220	3005	Orange	30	258.82	221 / 121	252 / 152	24,540.28
3120	31,197411	29,910634	Orange	36	Alexandria	333.94	277.23	764,84	630.15	994.22	3005	Orange	30	211.23	22" / 12"	25" / 15"	24,540.28
3005	31.198732		Orange	36	Alexandria	265.53	258.54	384.01	531.92	532,89	3829	Orange	36	258.54	22* / 12*	25"/15"	24,340.28
3903	31.188632	29.924128	Orange	30	Alexandria	2380	325.99	1610	1840	3300	3744	Vodafone	30	185.99	22° / 12°	25*/15*	24,540,28
3812	31.210759	29.937179	Crange	30	Alexandra	656.58	665,53	957.15	628.13	831.82	1826	Orange	30	656.51	22° / 12°	25° / 15°	24,540.28
3826	31.216348	29.938492	Ocuras	30	Alexandria	261.30	631.29	549.45	784.61	735.31	3229	Vodafone	30	-261.30	22° / 12°	25° / 55°	34,540,28
3825	31,219293	29.927926	Orange	30	Alexandria	599.79	937,17	1070	751.88	889.31	3818	Orange	3G	599.79	22" / 12"	25*/15*	24,540.28
3818	31.222915	29.932657	Orange	30	Alexandria	724.81	495.00	590.88	927.32	1120	4284	Vodafone	30	496.00	22"/12"	25" / 15"	34,540.28
3918	31.243408	29,966744	Orange	10	Alexandras	498.00	543.42	1250	1450	661.42	33310	Ensalat	40	496,00	22° / 12°	259 / 159	24,340.28
3874	31.16917	29,934699	Orange	30	Alexandra	1370	1260	2390	3360	3890	3443	Etisalat	20	1378	221 / 121	251 / 131	34,548.28
3964	31.152254	29.921572	Orange	30	Alexandria	912.88	2350	3380	4150	5630	3443	Etisalat	26	912.88	22*/12*	25* / 15*	24,540.28
3961	31.109614	29.87207	Orange	36	Alexandra	3290	6740	7650	\$950	10090	3136	Etisalat	36	3290	22° / 12°	25* / 15*	24,540.28
2918	30.020805	31,413413	Ommge	30	NewCapo	620.06	682.88	1040	1110	1180	570	Orange	20	620.06	342 / 122	32° / 13°	4,393.05
4655	30.019063	31,425736	Ocunge	30	NewCamp	521.06	775.9L	834.02	742.50	1350	10313	Orange	46	321.06	349 / 124	32'/13'	4,393.05
3301	30.00336	31.397334	Orange	36	NewCaire	843.33	1550	1790	1940	2470	2930	Orange	36	843.33	24*/12*	32*/13*	4,393.05
2930	29.997355	31,391957	Orange	30	NewCaice	10.33	2400	2610	2730	3790	1501	Orange	30	843.33	24° / 12°	329 / 134	4,395.05
					40 10		444.24								1/// VXI	VIII I	







Thank You

