

CSP-586

MAIN PROJECT

PHASE 3, 29 April 2017

PROJECT TITLE- SOCIAL SERVICES

PROJECT TEAM MEMBERS-

Han, Seungho (A20360115)

Li, Jingtian (A20349703)

Makhijani, Priyanka(A20392003)

Moon, Sangwon (A20259651)

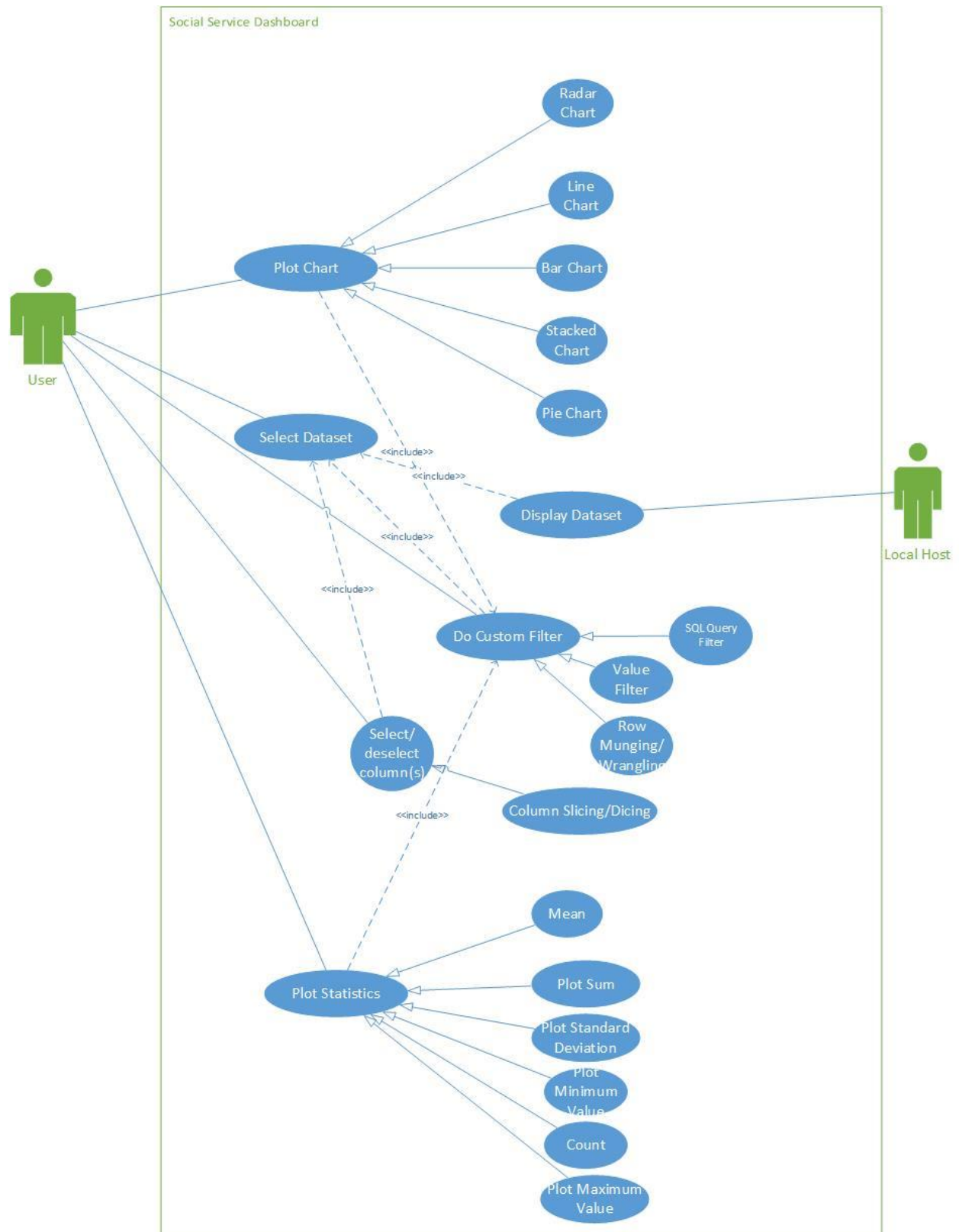
Tiwari, Saurabh (A20356308)

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4.	SYSTEM SEQUENCE DIAGRAMS
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7.	DESIGN PATTERNS
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USE CASE DIAGRAM



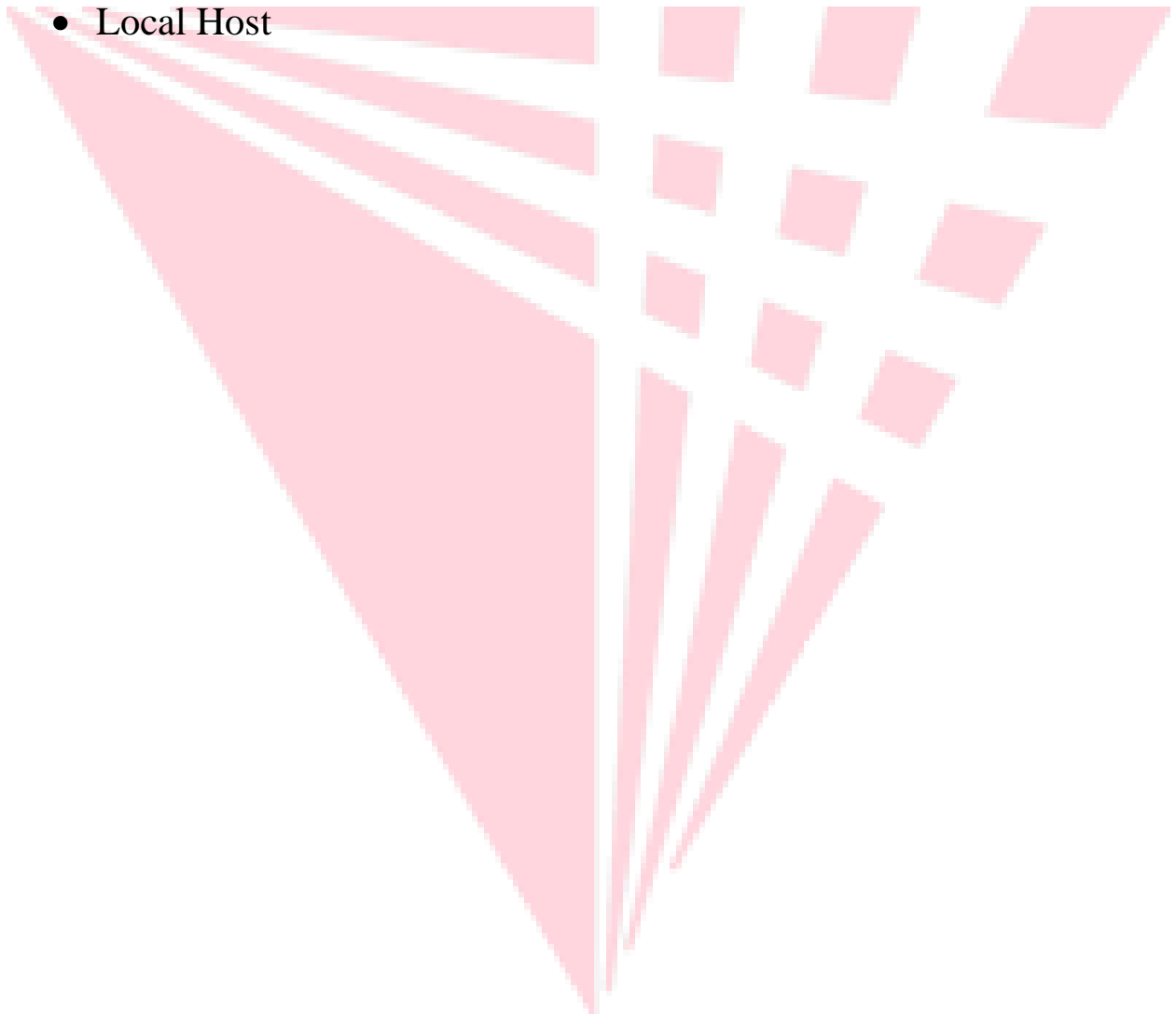


USE CASES

1. Select Dataset
 2. Plot Graph
 3. Plot Statistics
 4. Do Custom Filter
 5. Select/deselect column(s)
 6. Column Slicing/Dicing
 7. Select/deselect row(s)
 8. Row Munging/Wrangling
 9. SQL Query filter
 10. Value filter
 11. Mean
 12. Plot Sum
 13. Count
 14. Plot Minimum
 15. Plot Maximum
 16. Plot Standard deviation
 17. Bar Chart
 18. Pie Chart
 19. Stack Chart
 20. Radar Chart
 21. Line Chart
- 

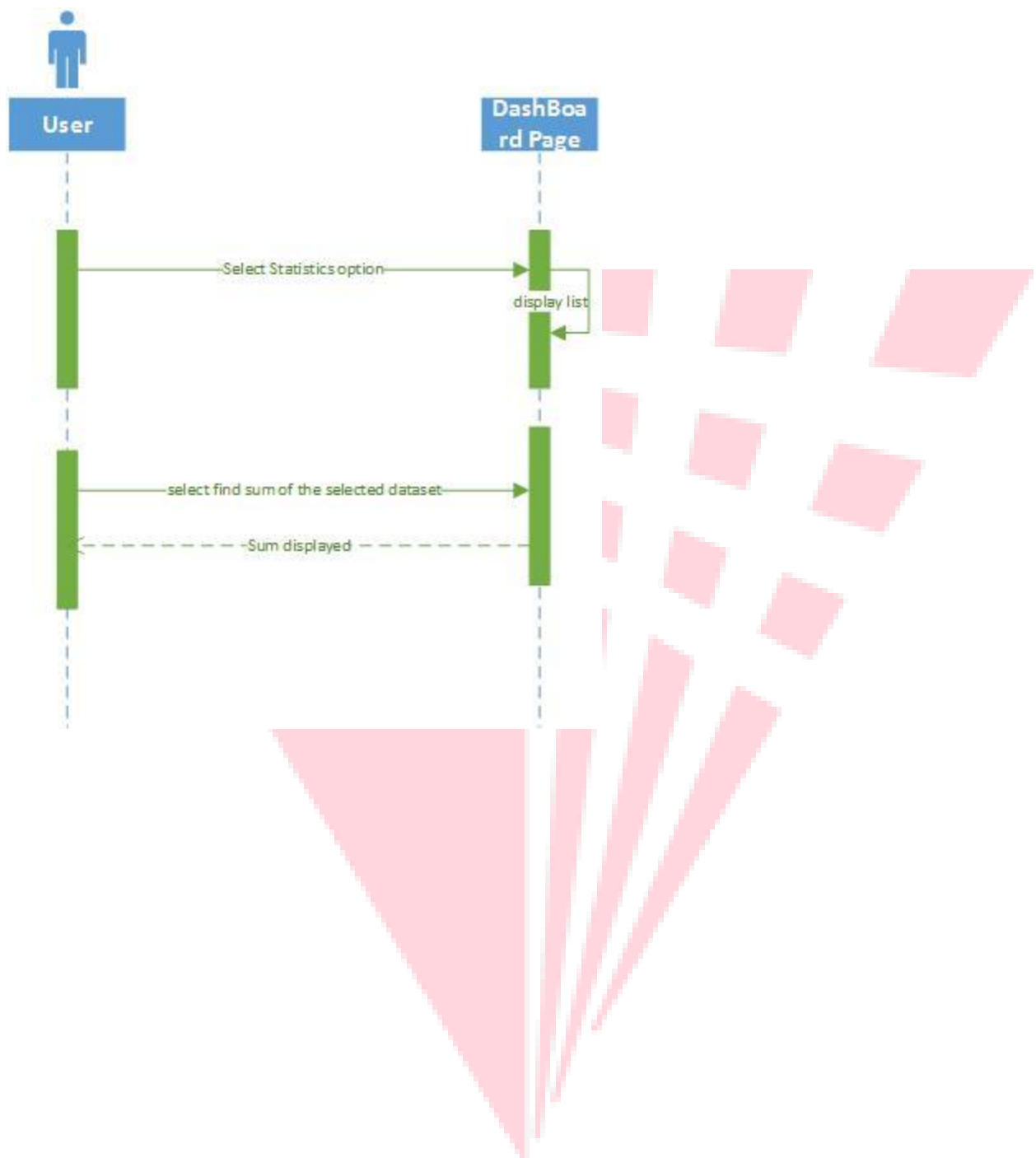
LIST OF ACTORS

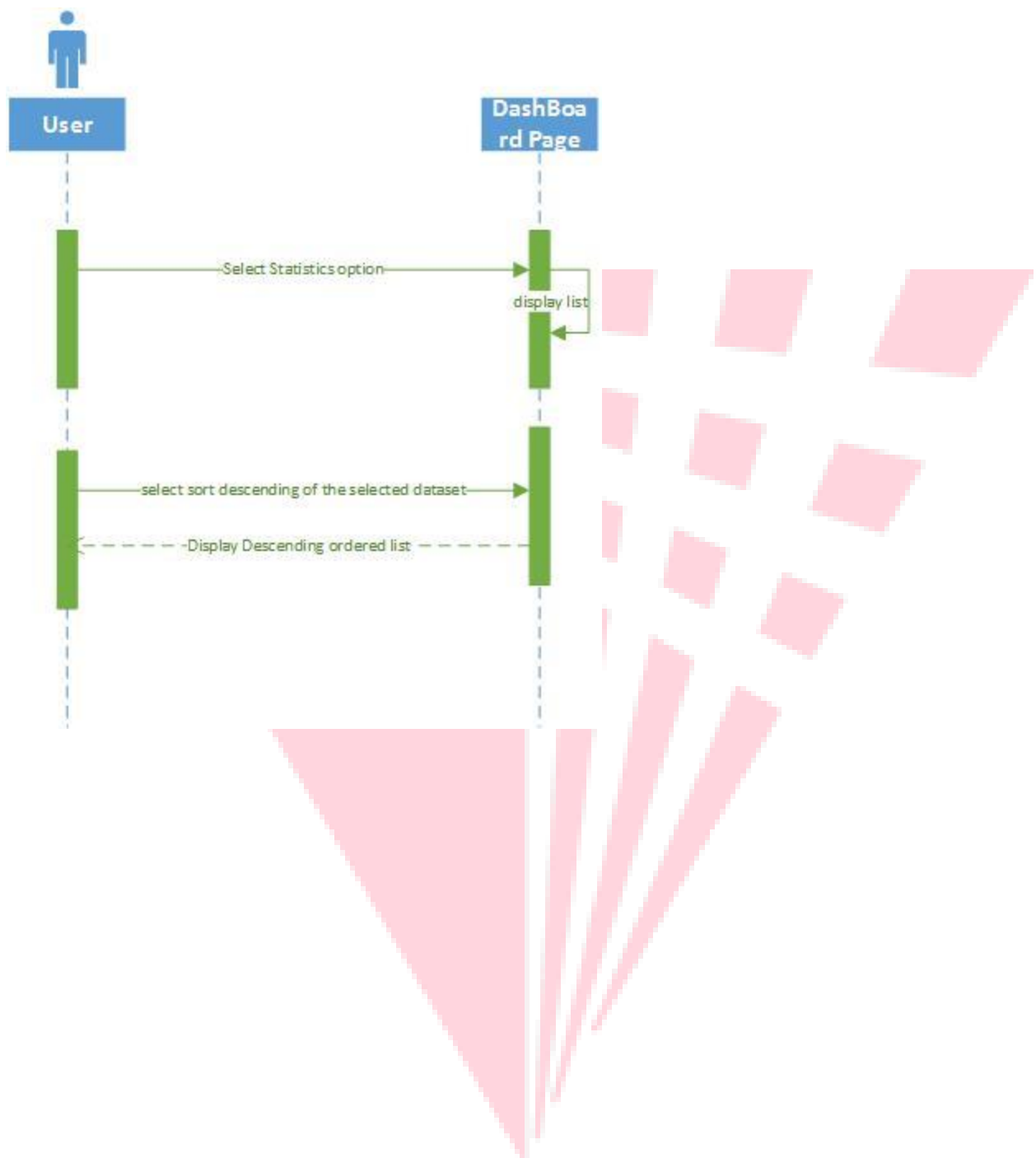
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- Local Host

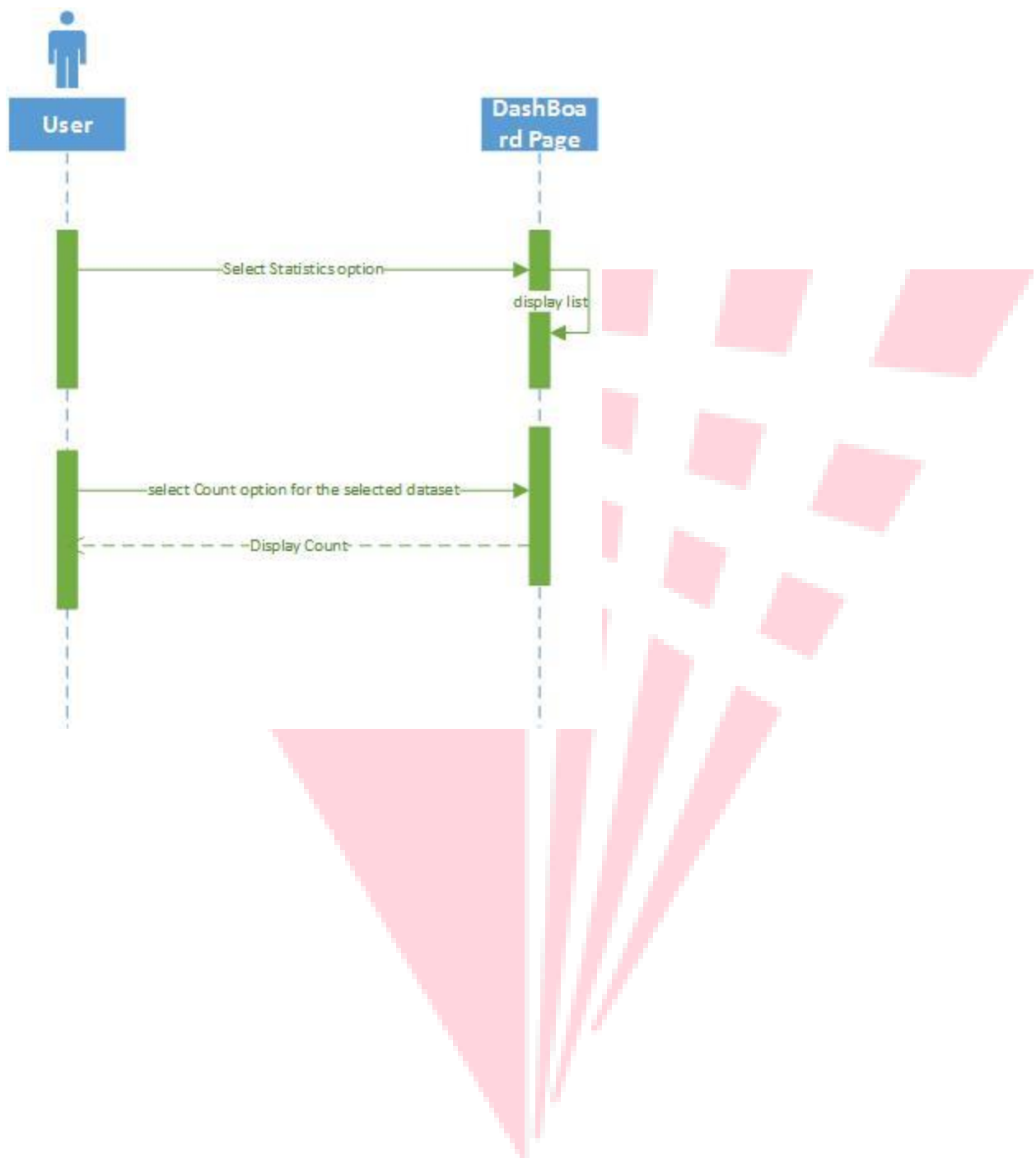


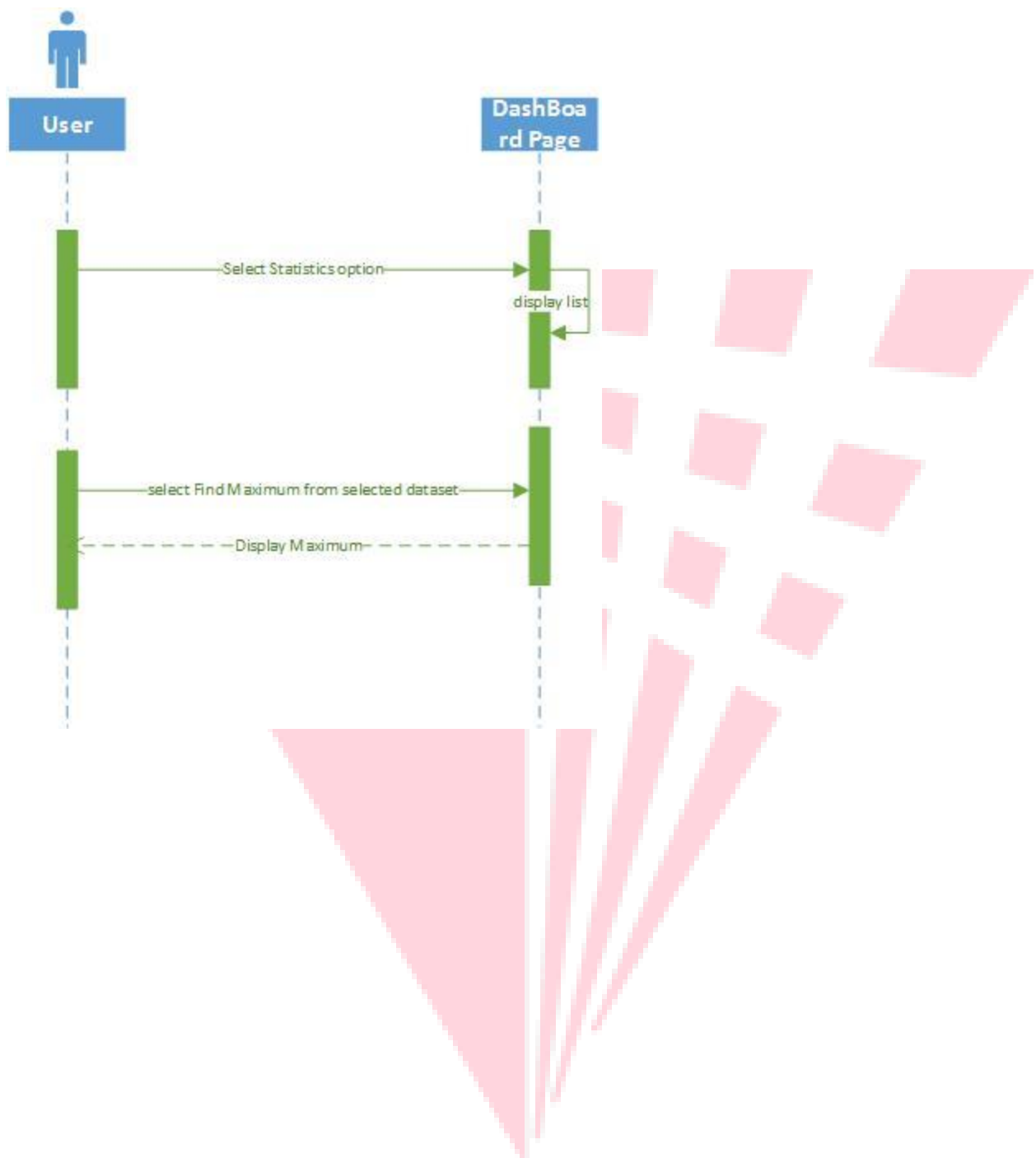
SYSTEM SEQUENCE DIAGRAMS

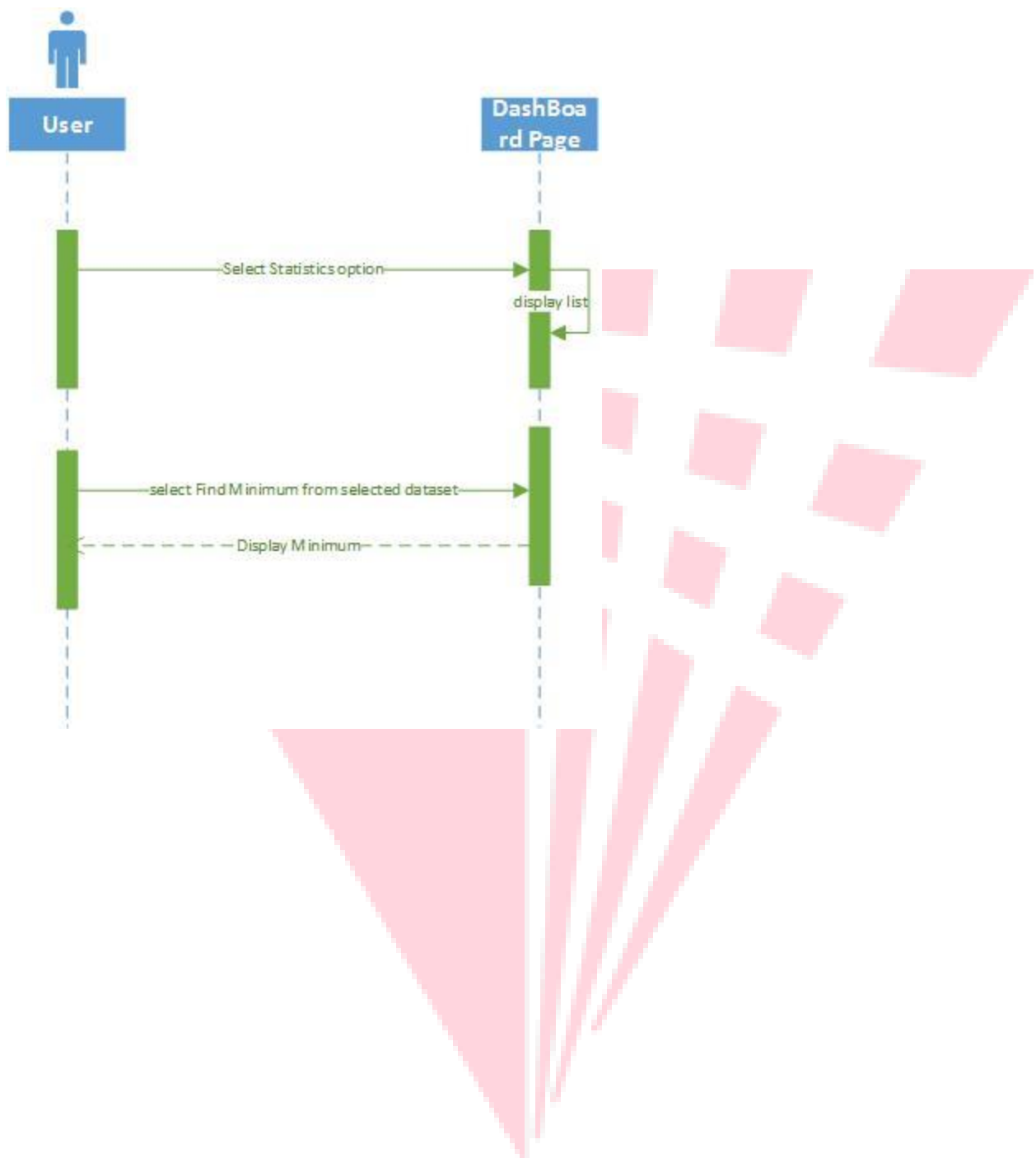


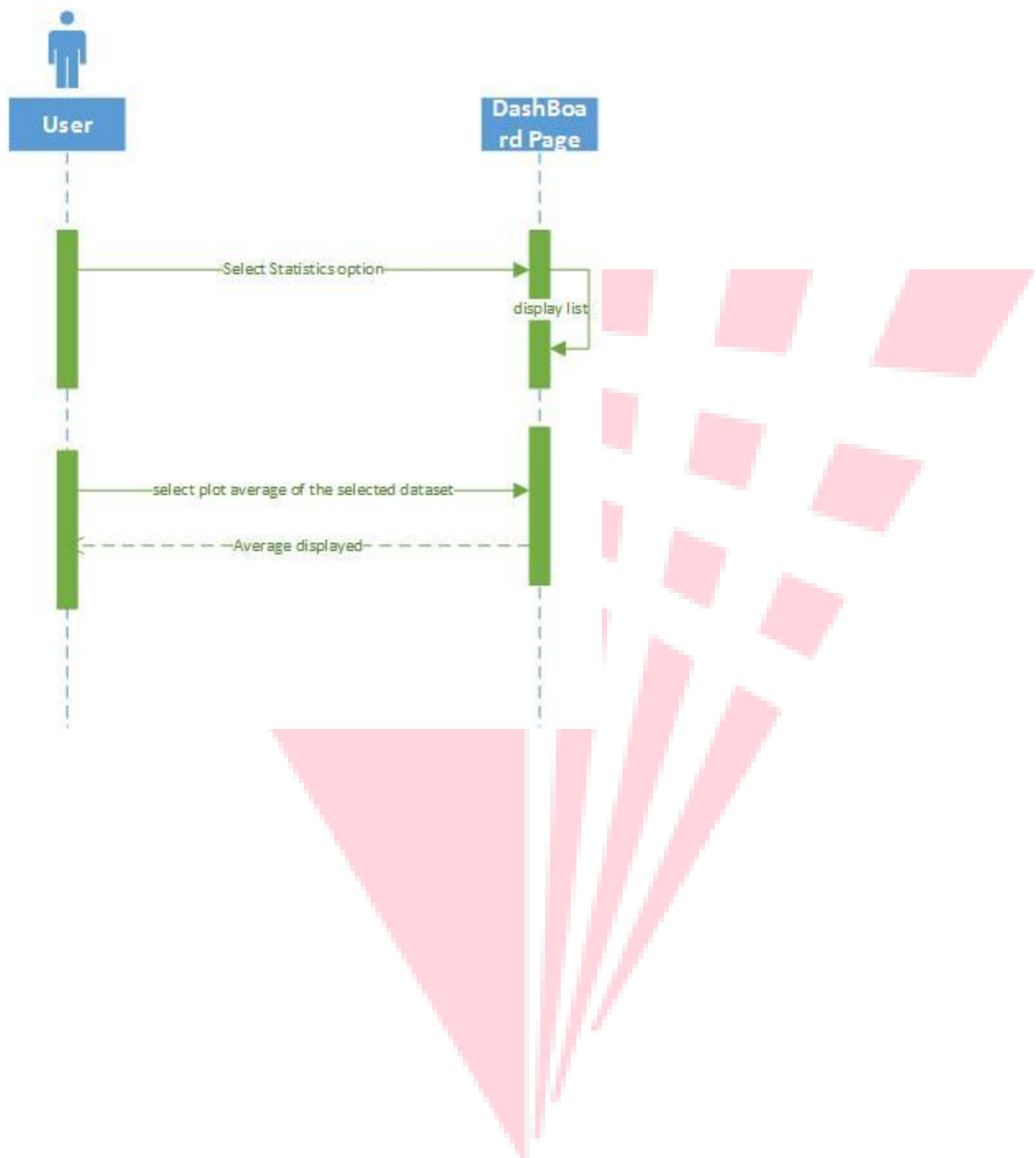


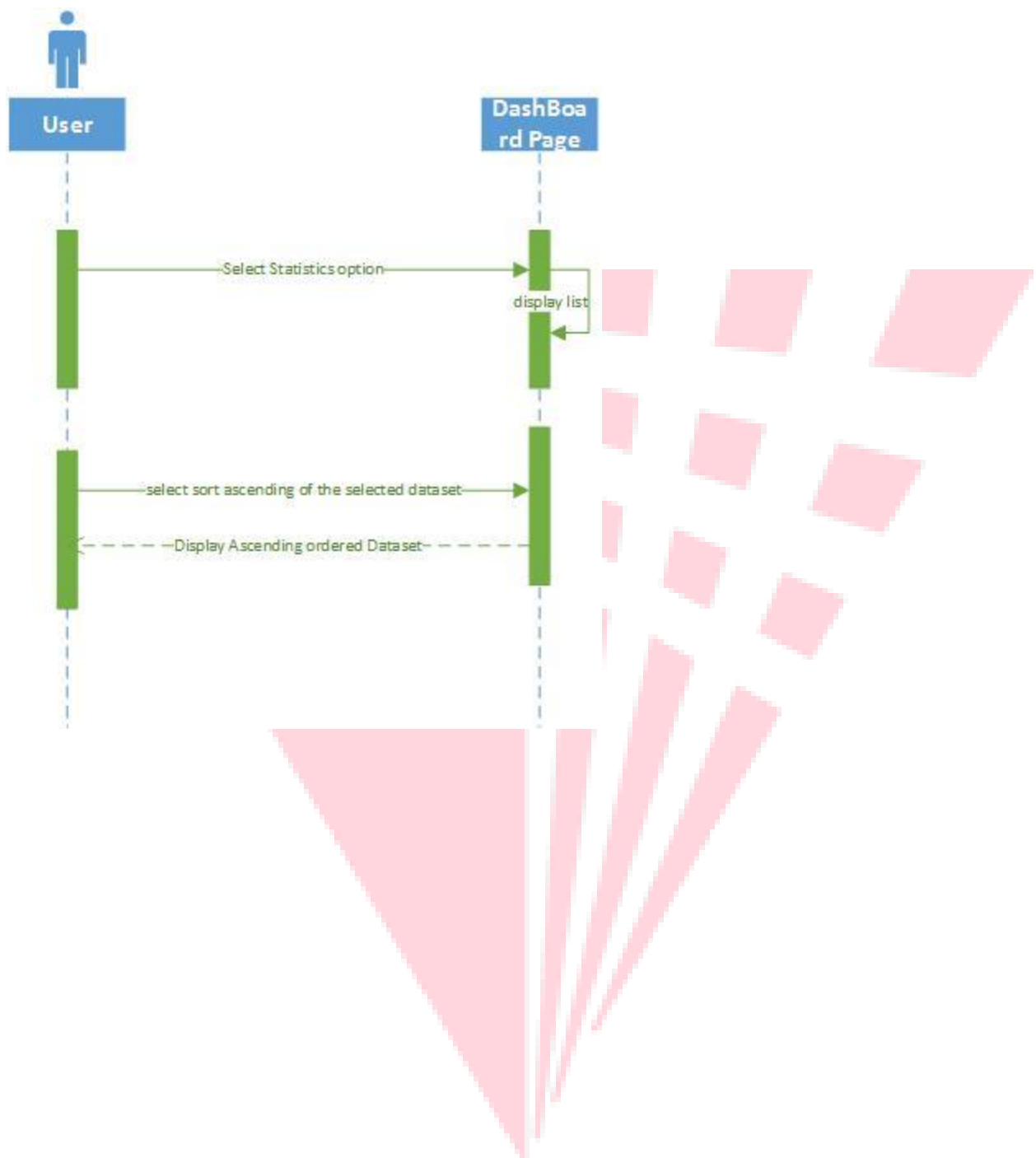


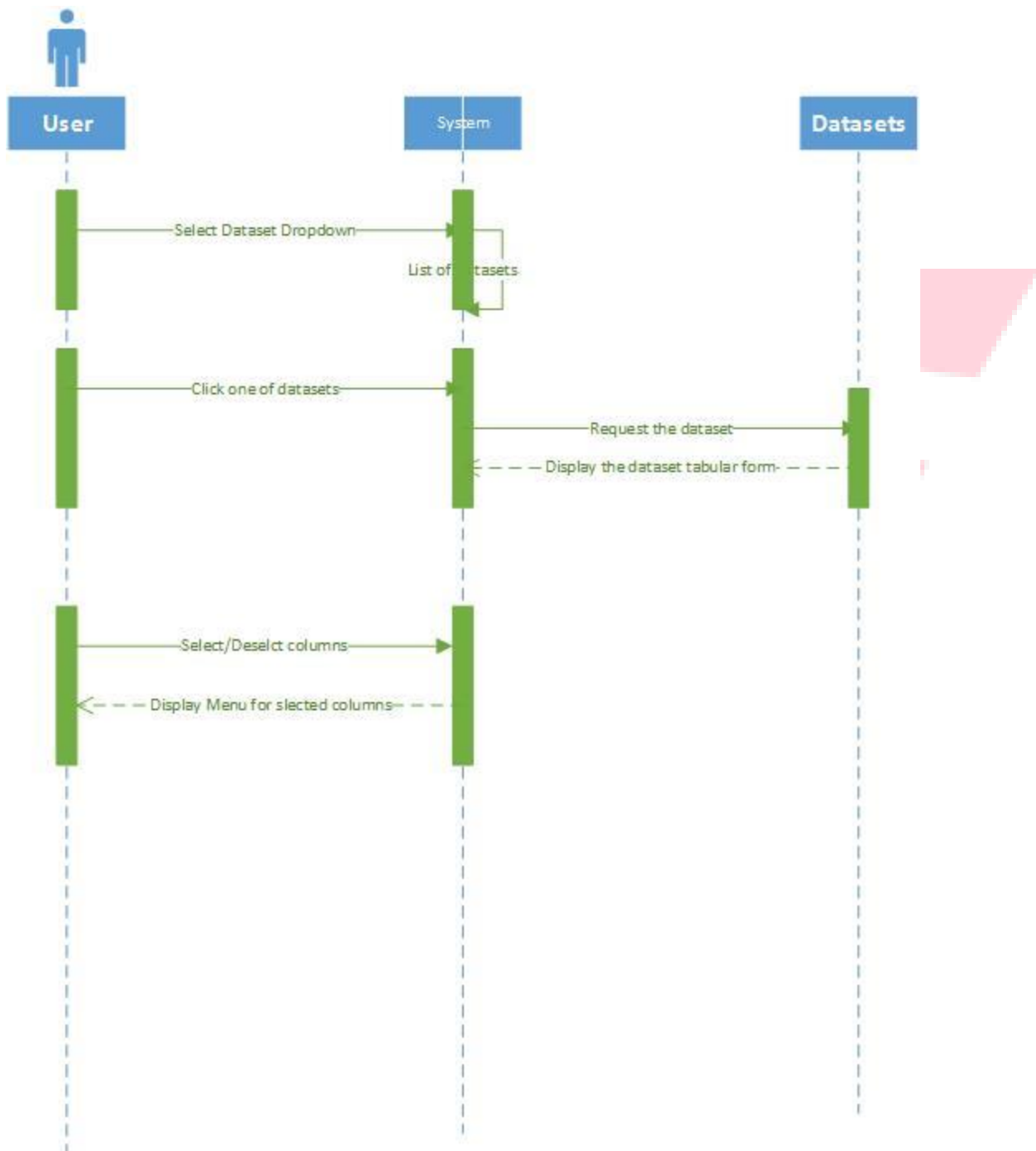


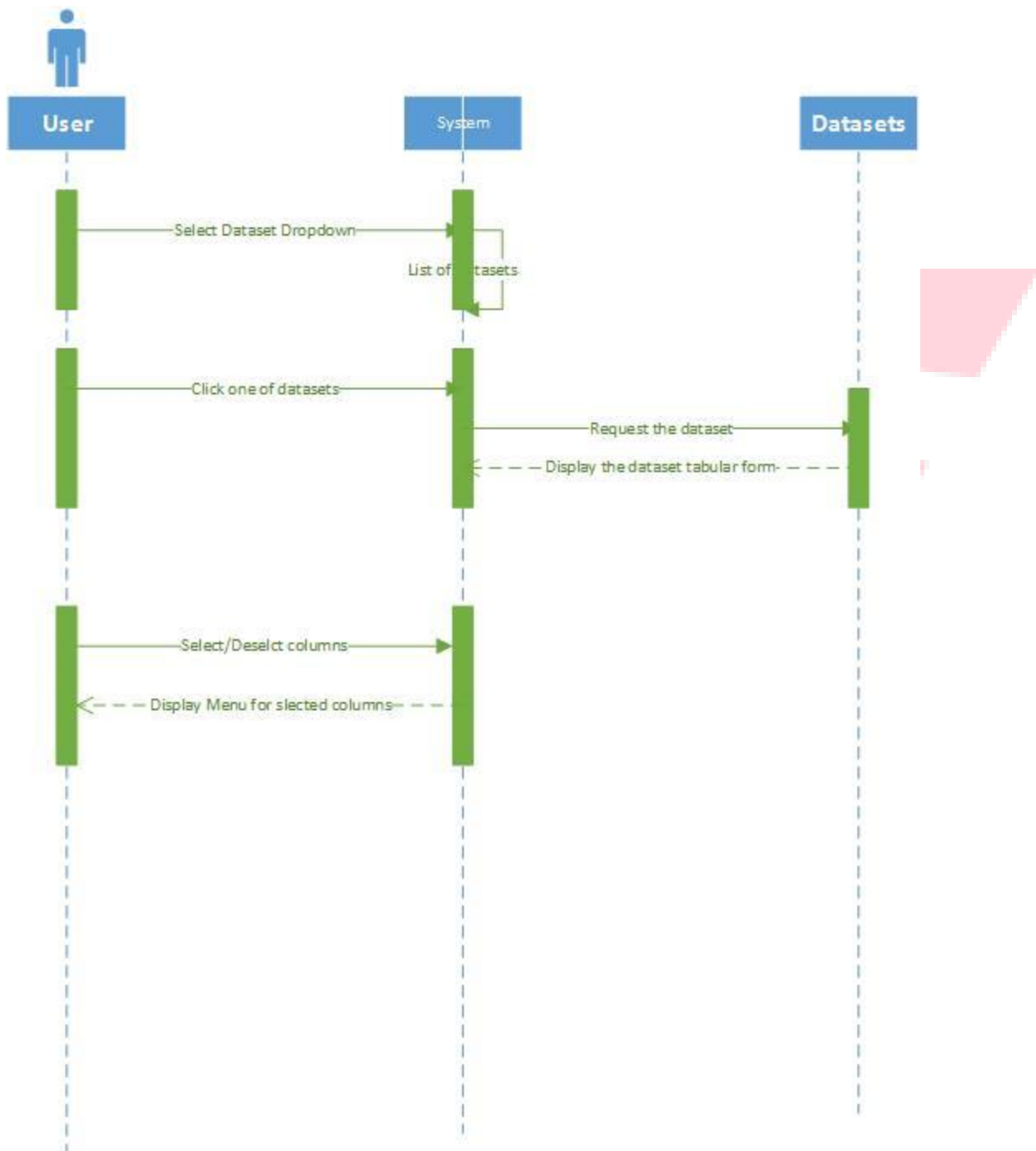


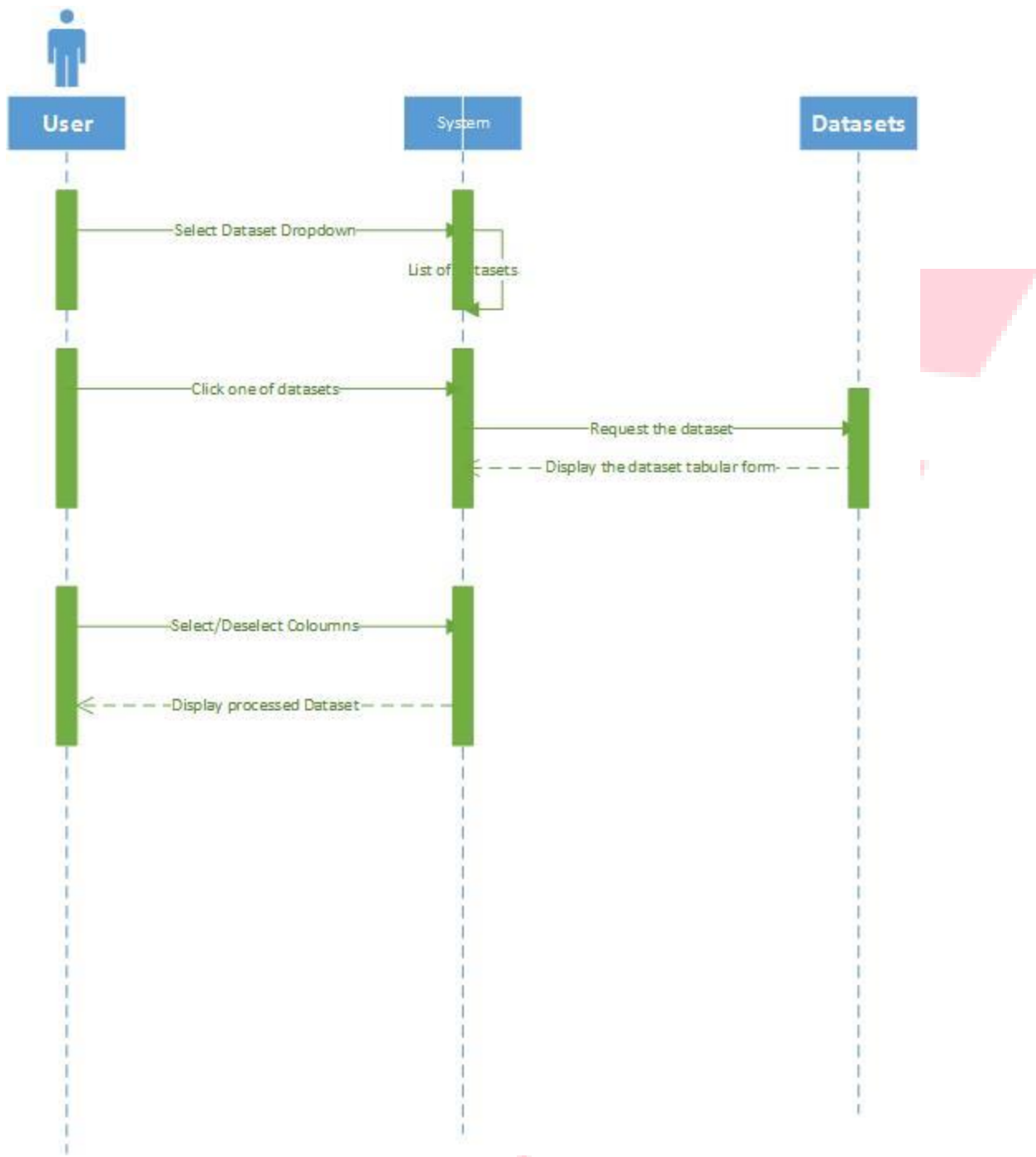


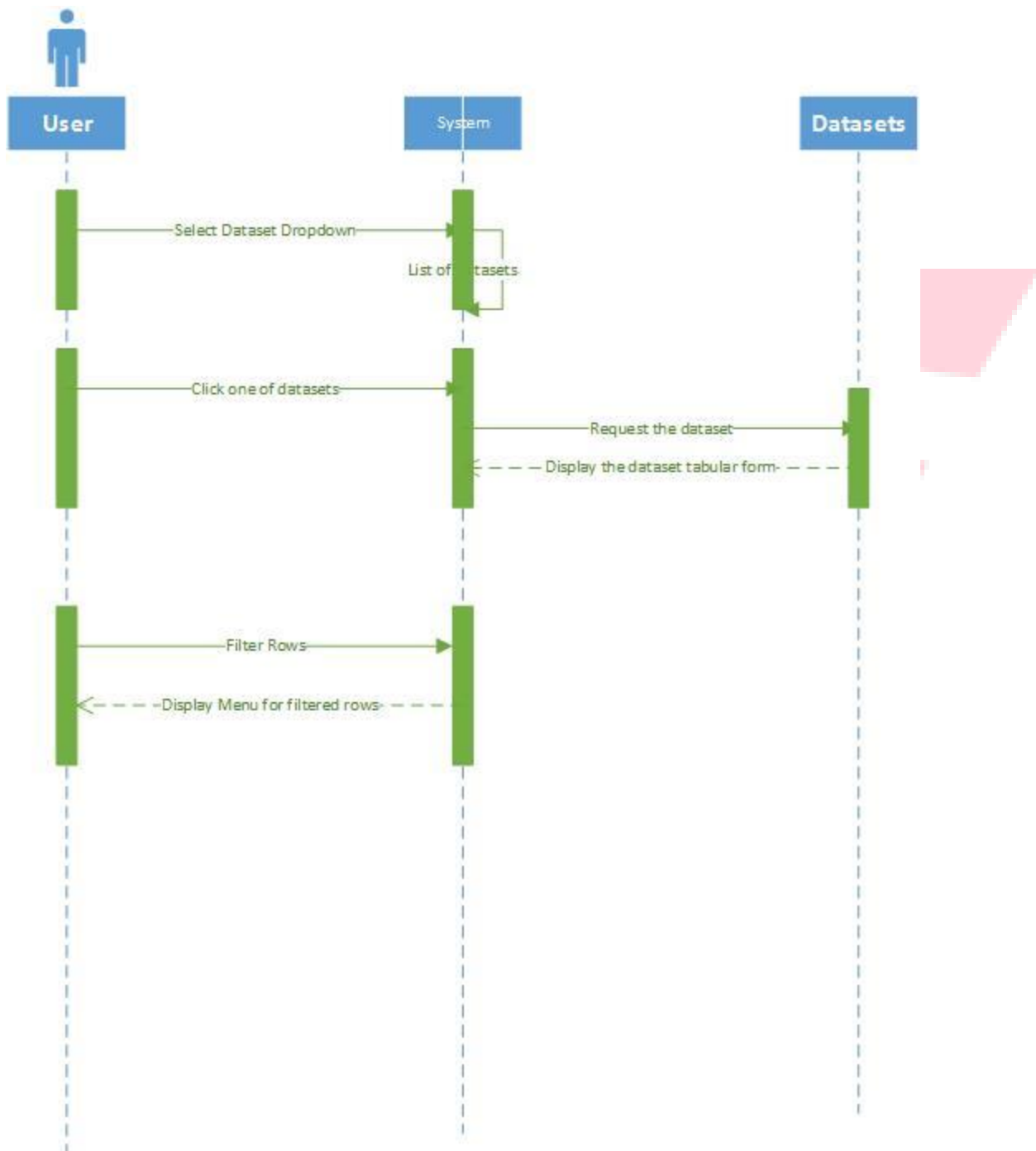


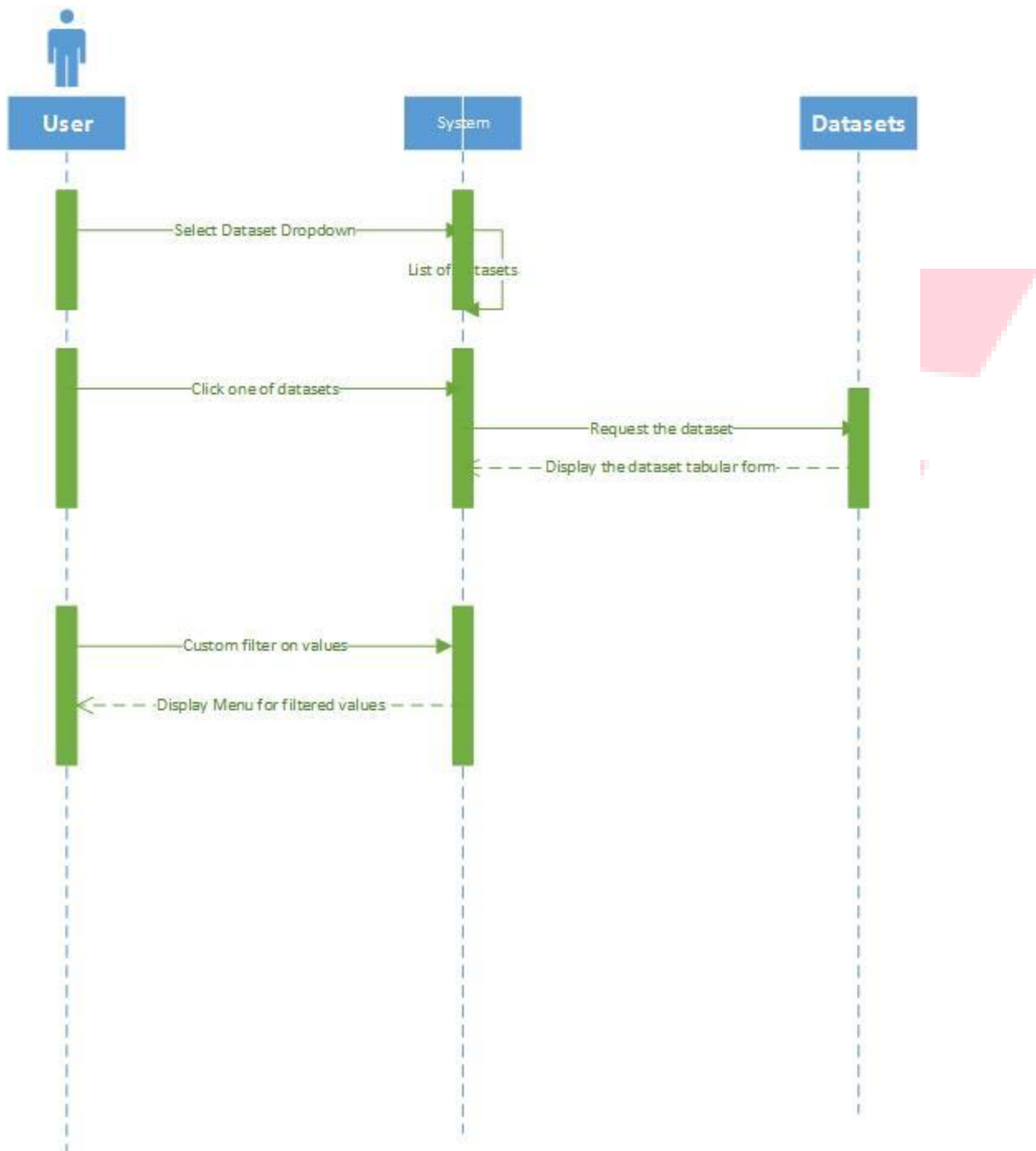


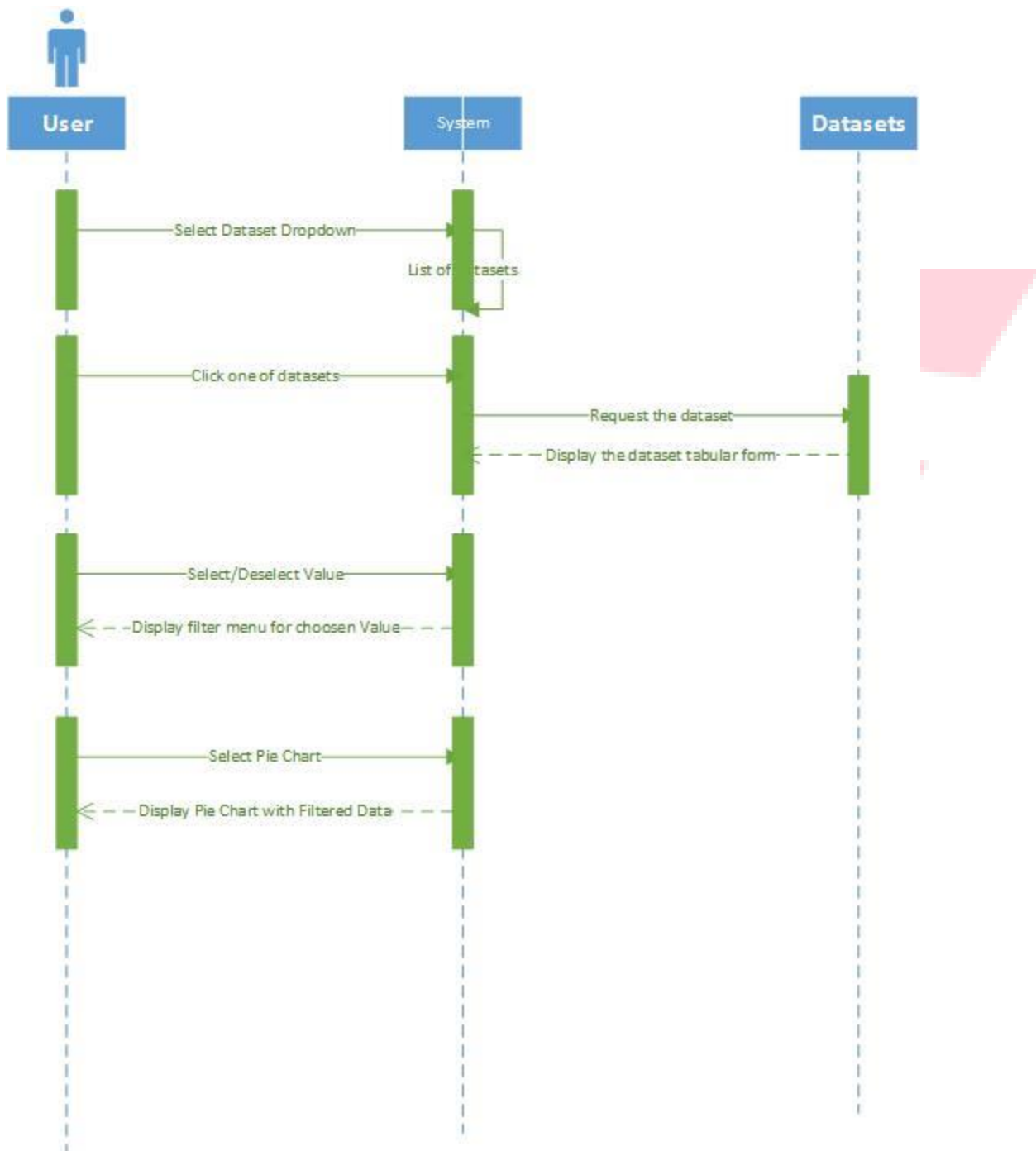






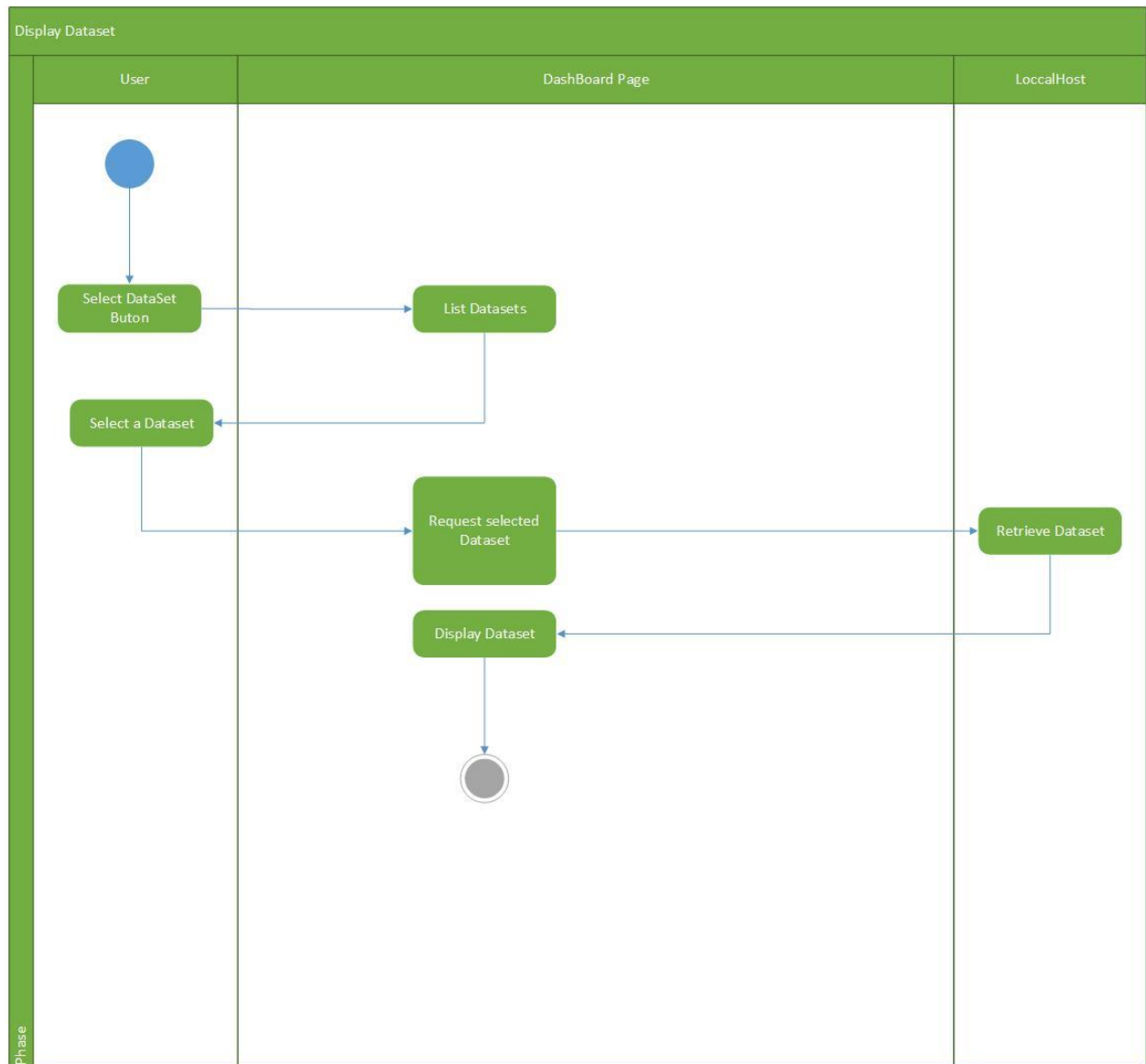




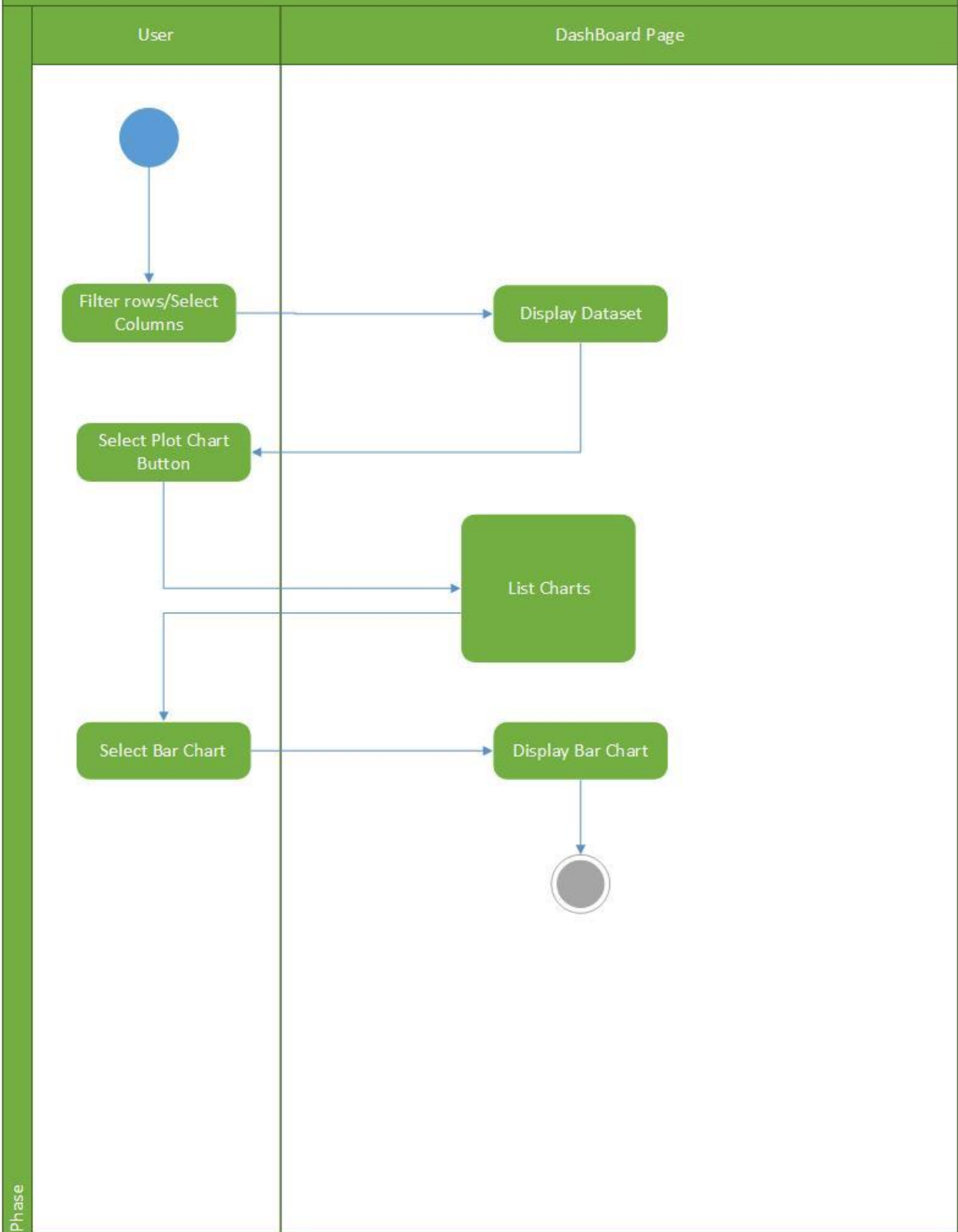


An abstract graphic composed of various pink geometric shapes. On the left, a large triangle points downwards. To its right, several smaller triangles and trapezoids are arranged in a fan-like pattern, also pointing downwards. Further to the right, a series of small squares are arranged in a grid-like pattern, with some squares slightly offset from each other, creating a sense of depth and movement. The overall composition is dynamic and modern.

ACTIVITY DIAGRAM



Plot Bar Chart

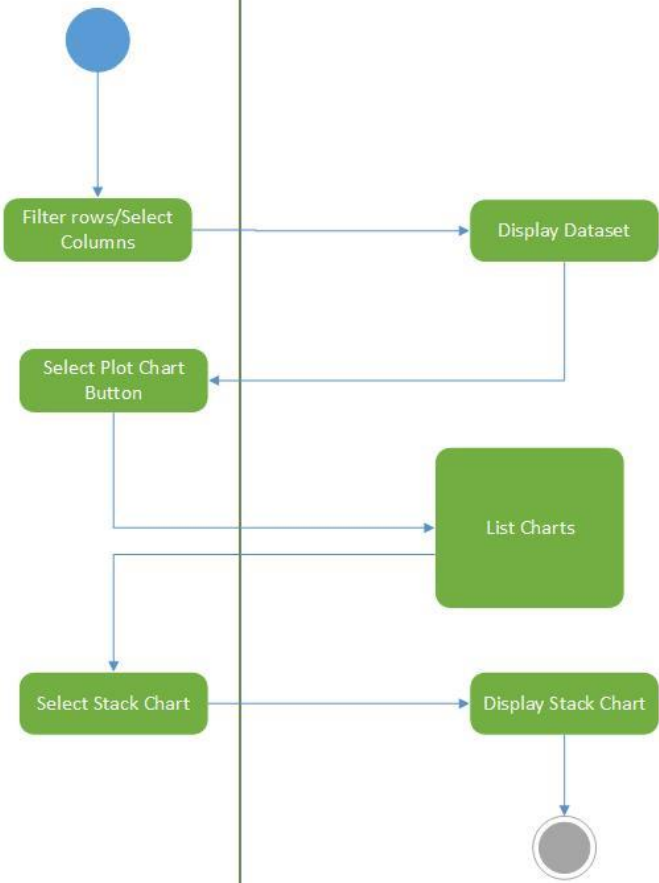


Plot Stack Chart

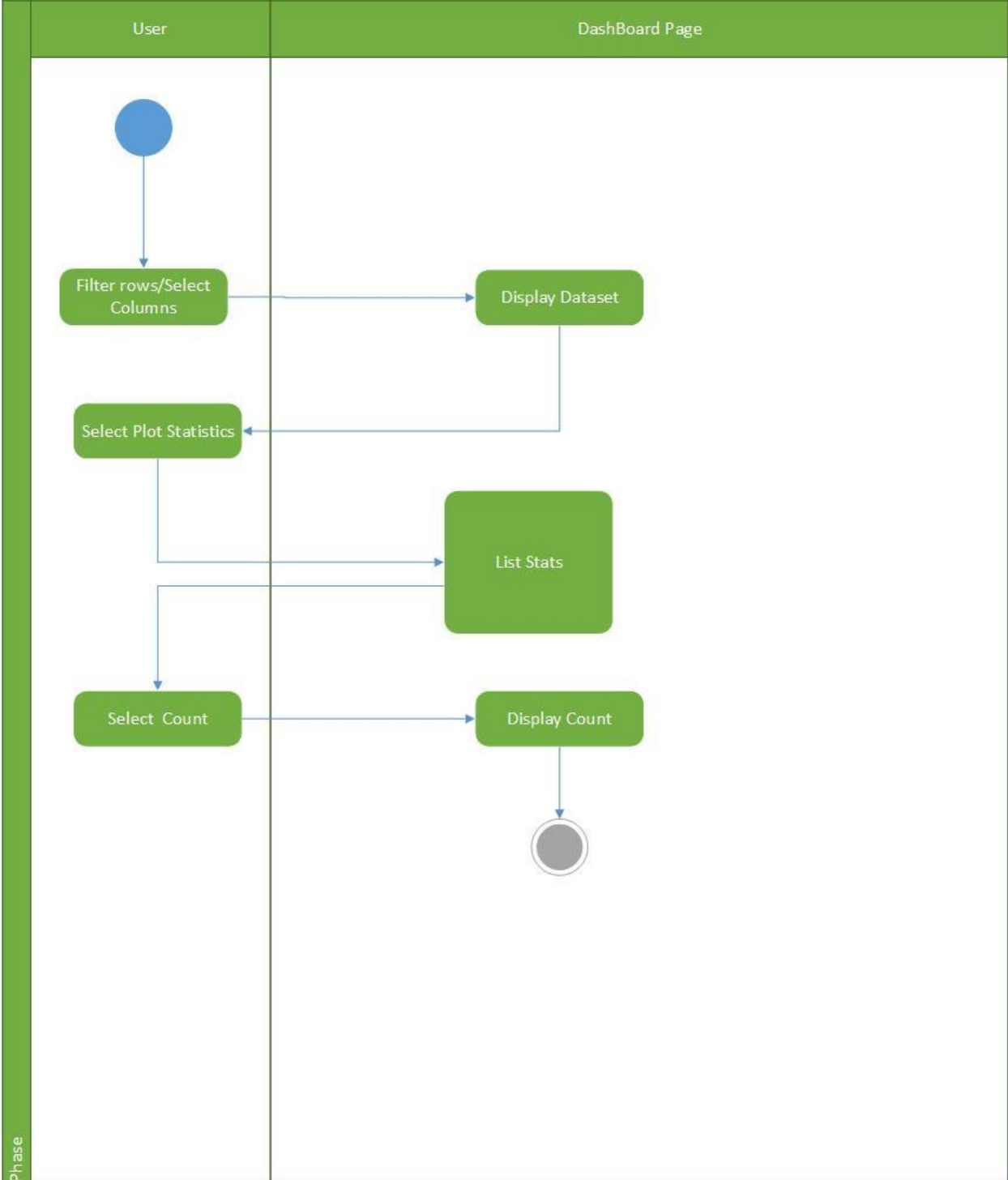
User

DashBoard Page

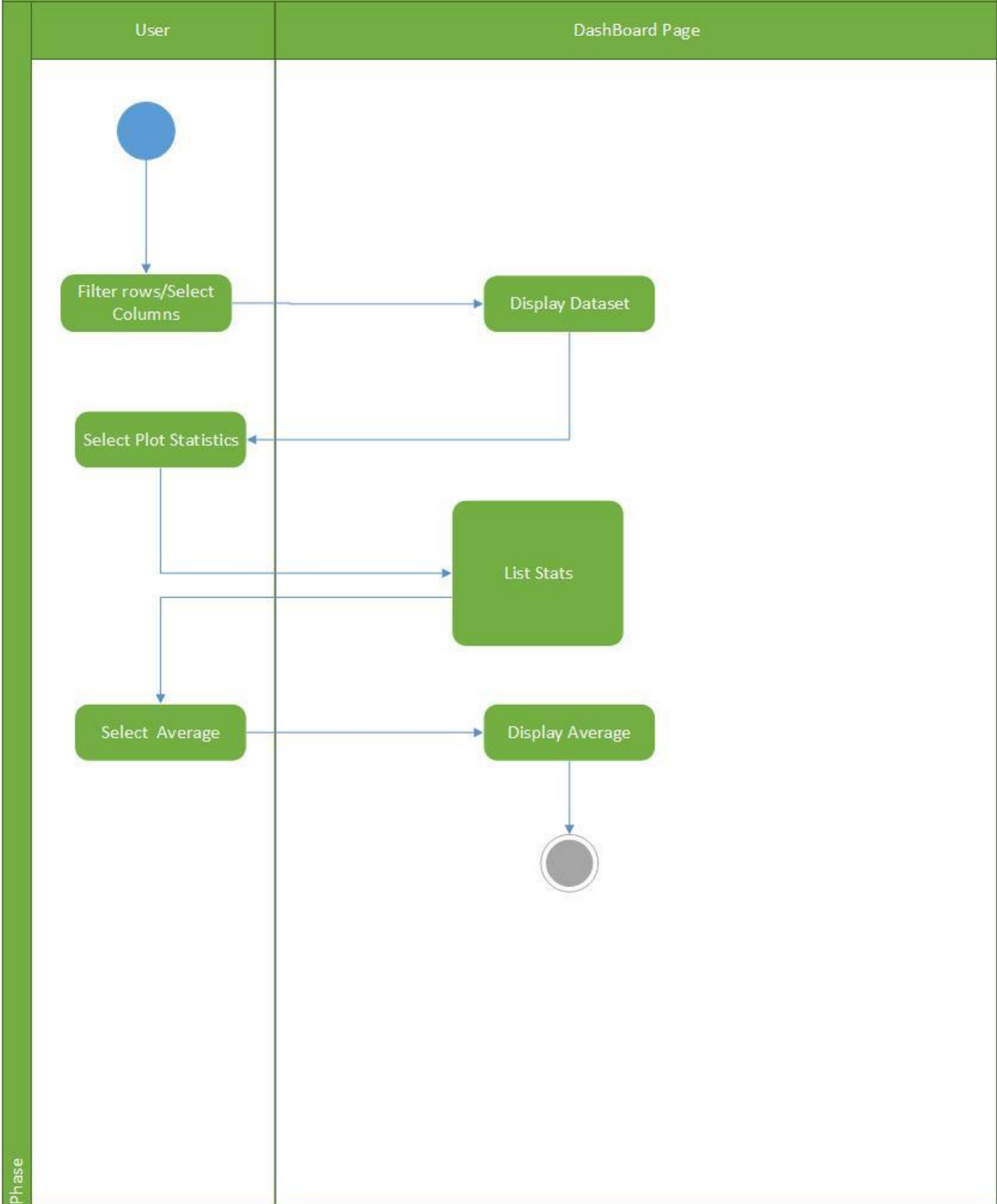
Phase



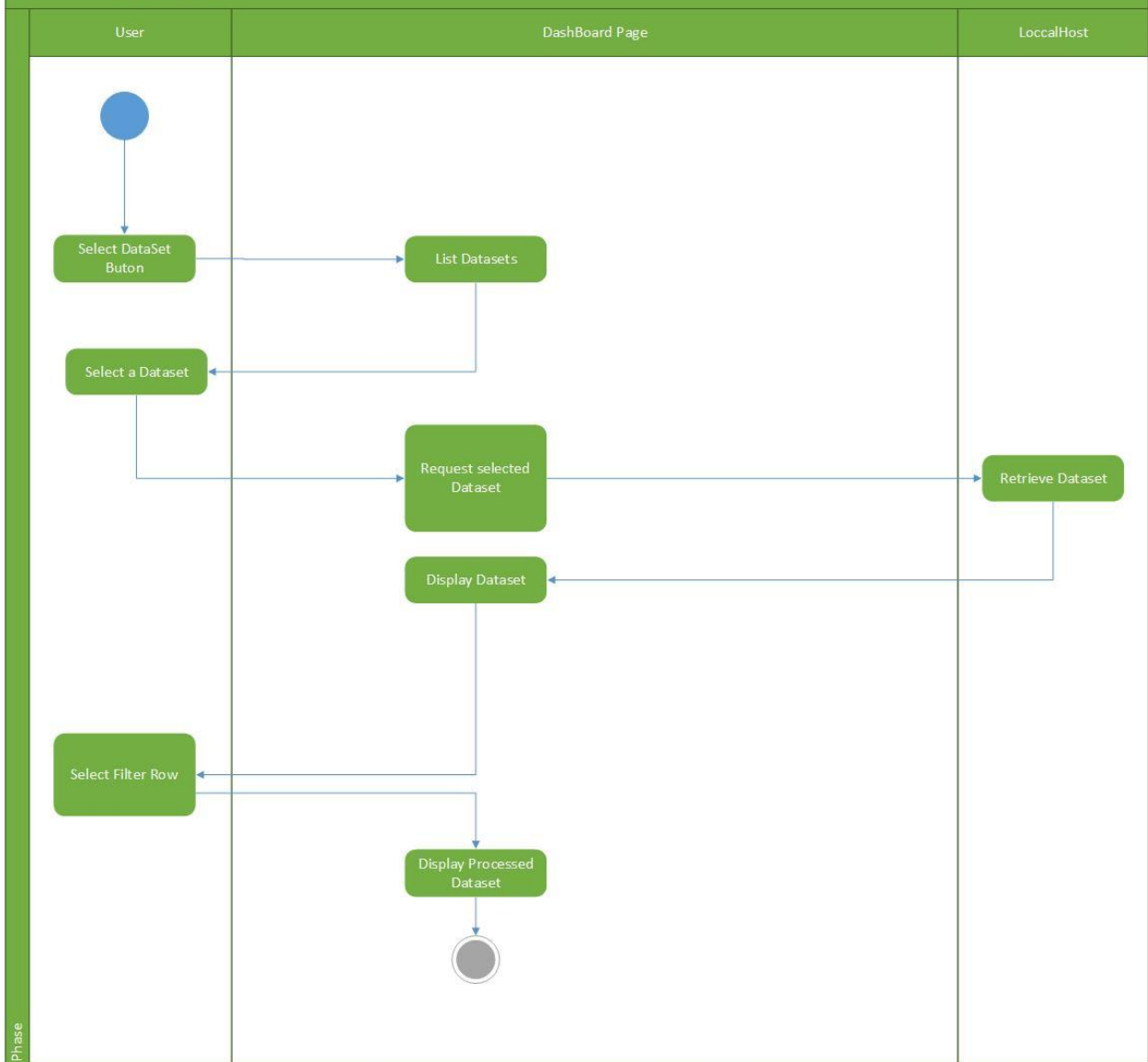
Display Statistics - Count



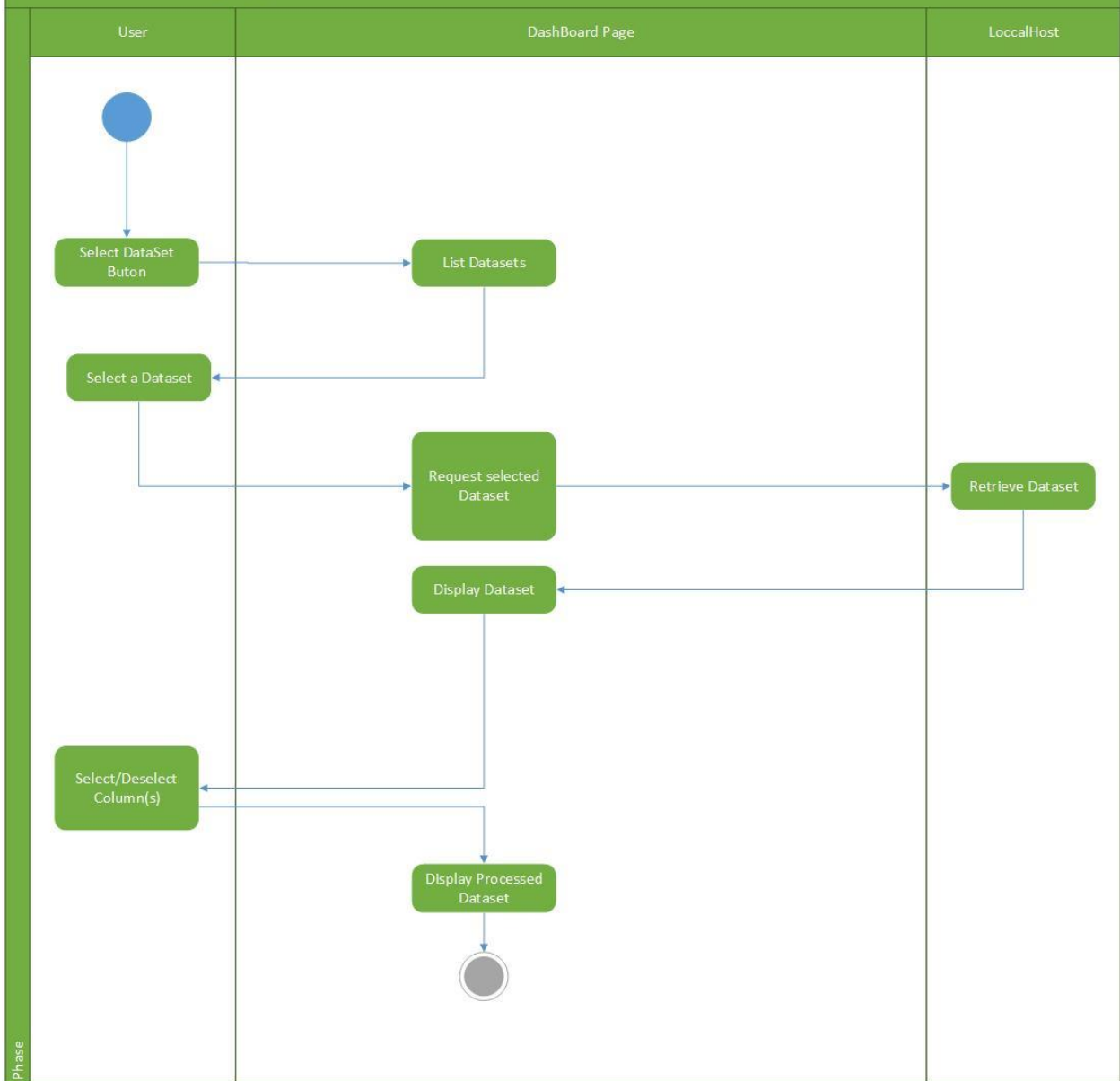
Display Statistics - Average



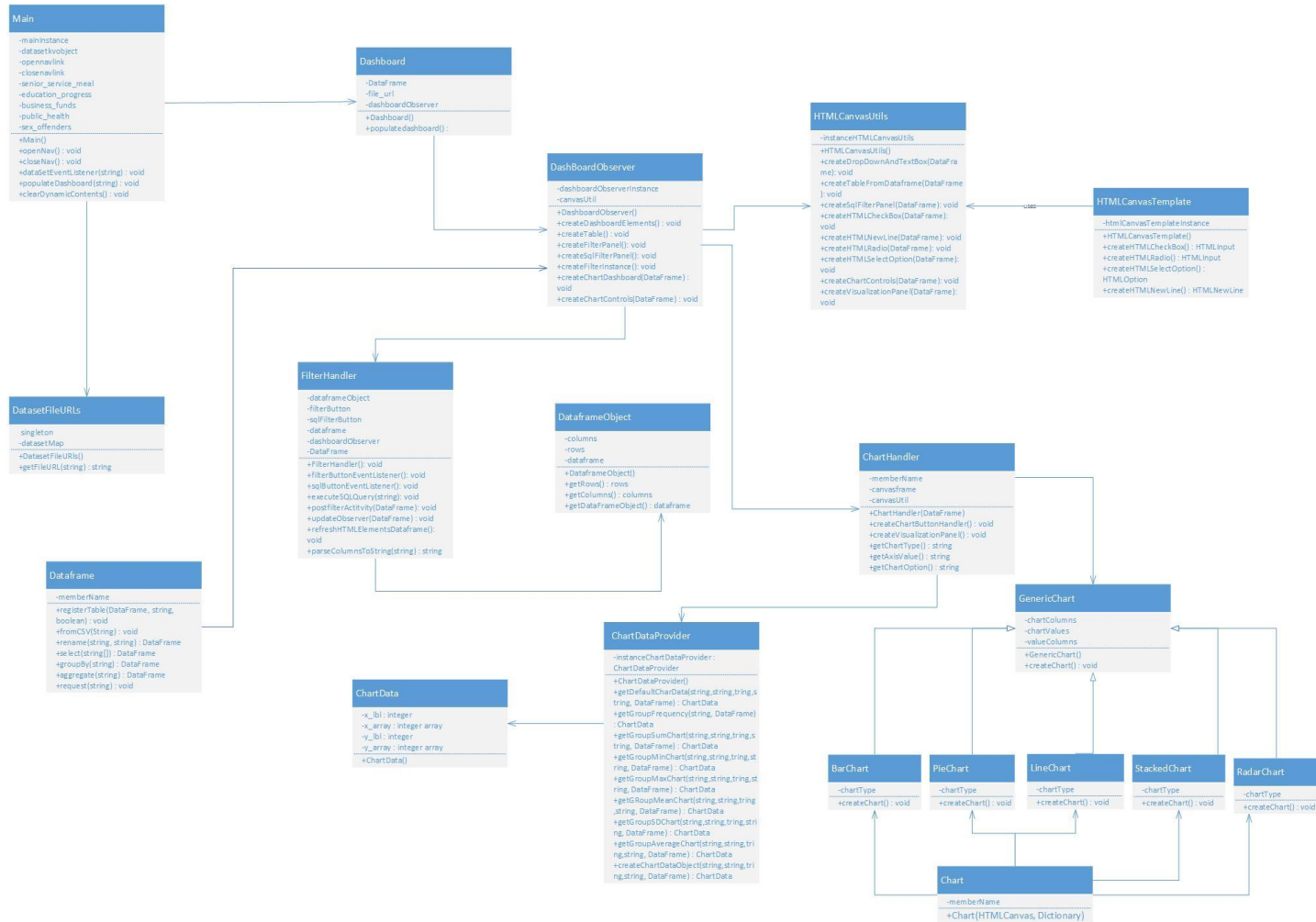
Filter Row - Munging/Wrangling



Select/Deselect Columns - Slicing/Dicing

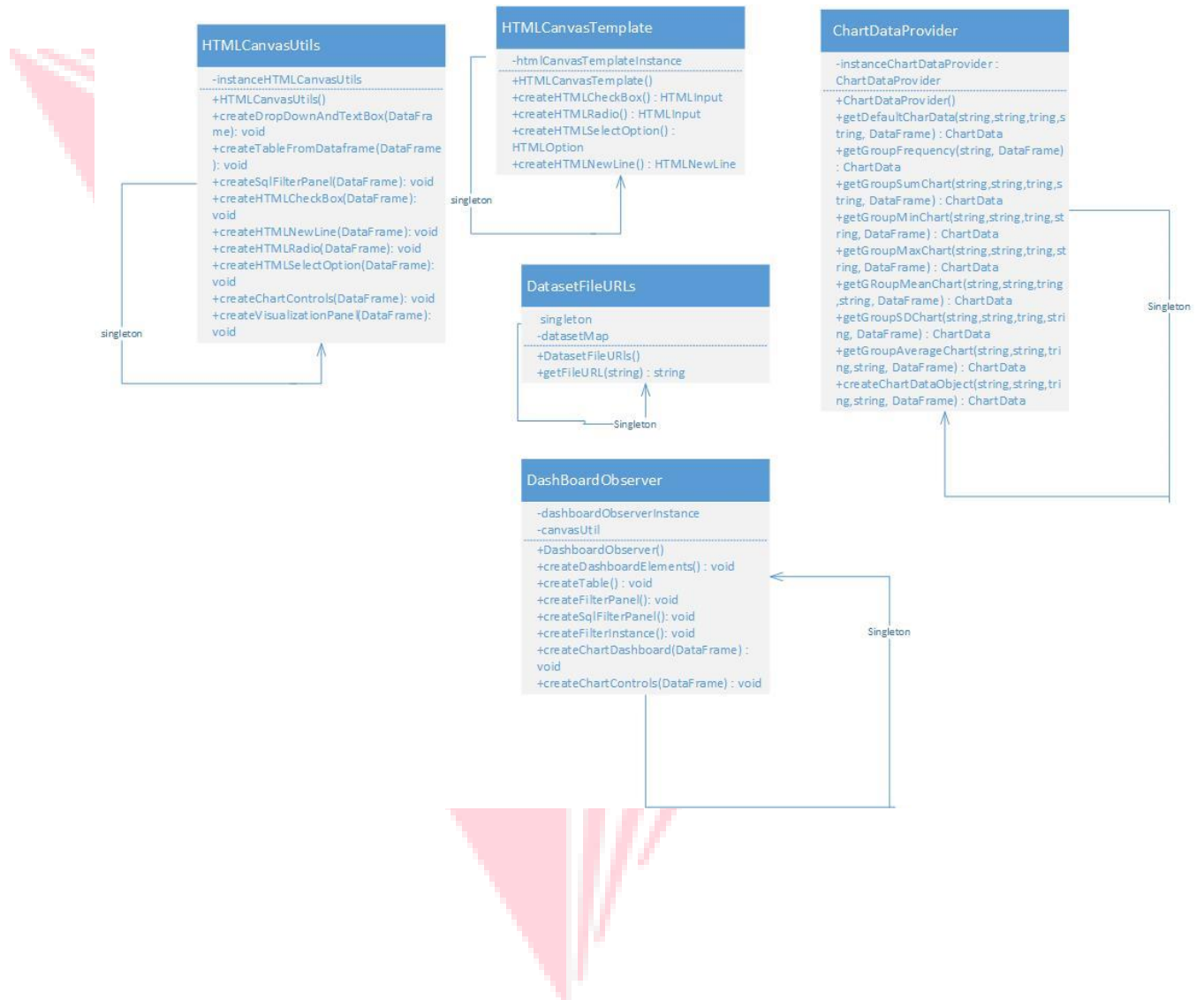


CLASS DIAGRAM (DESIGN MODEL)

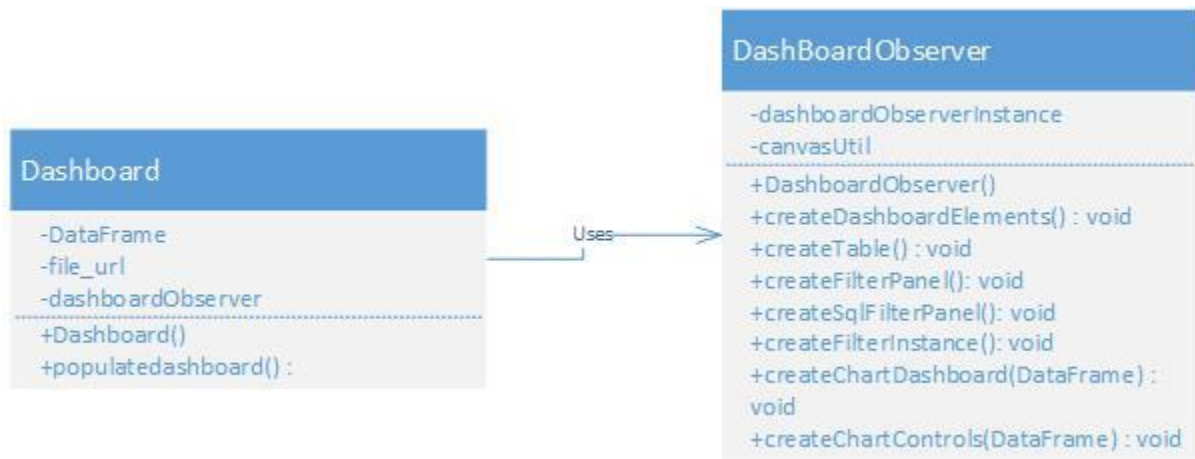


DESIGN PATTERNS

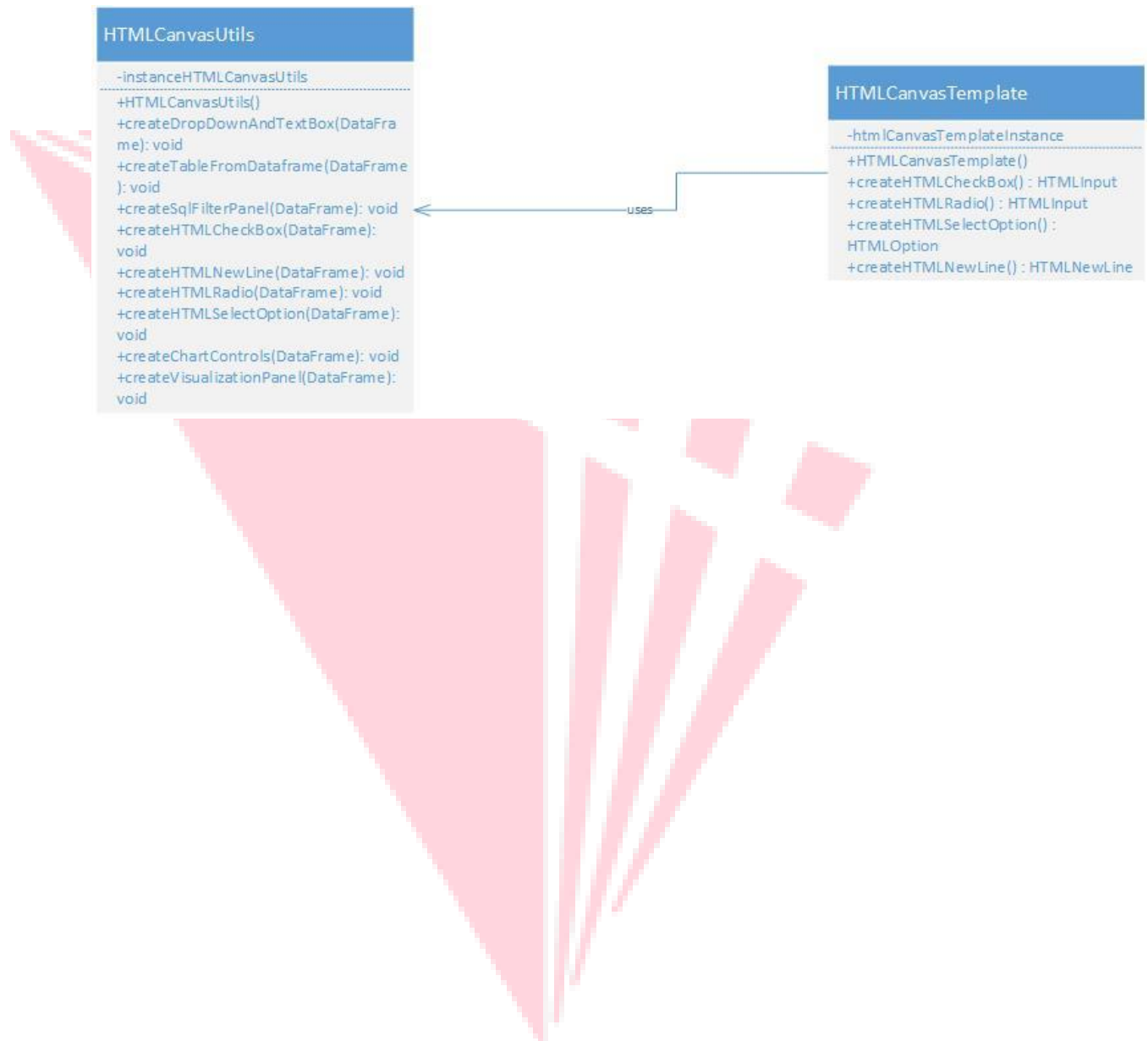
• SINGLETON



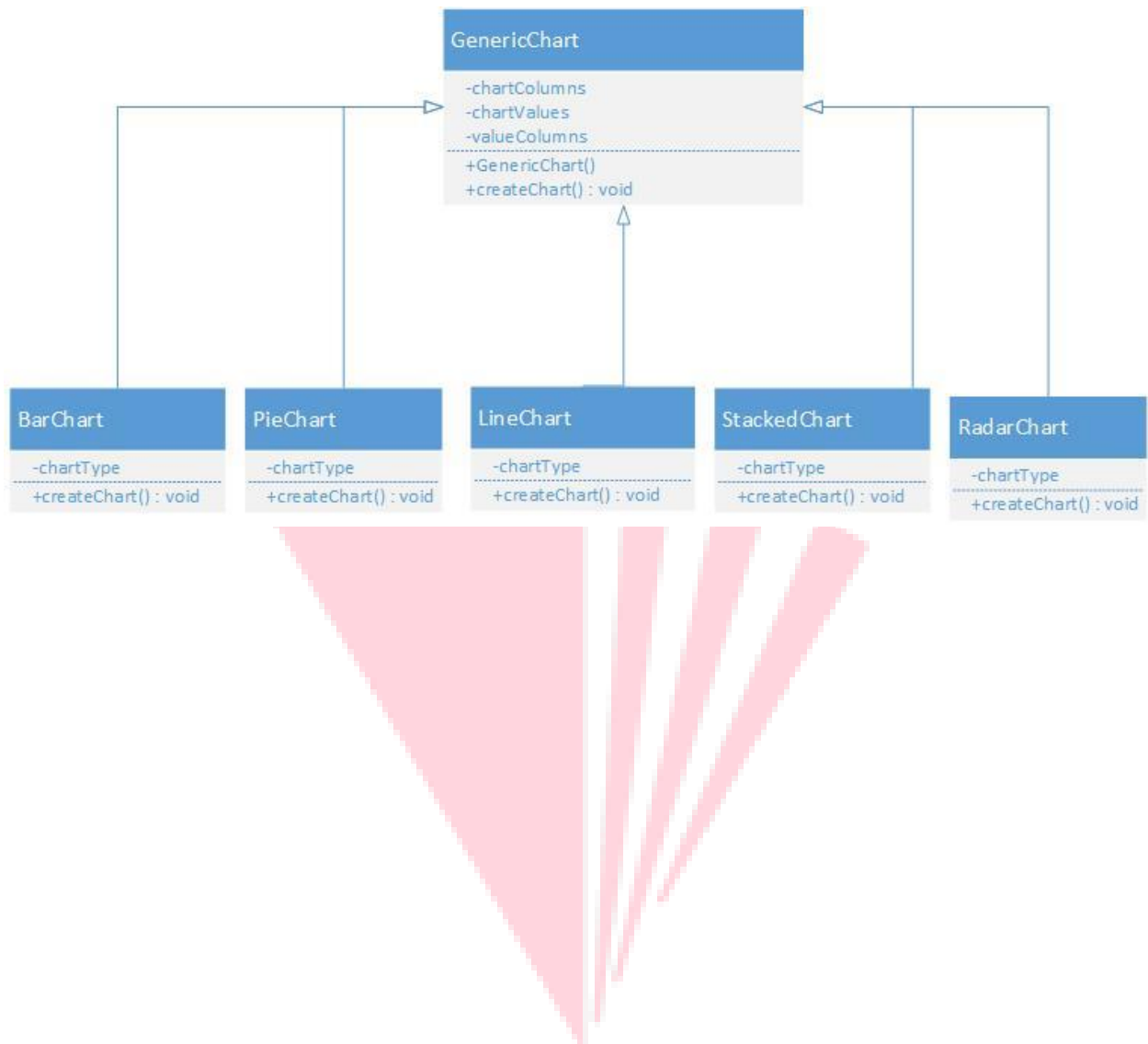
• OBSERVER



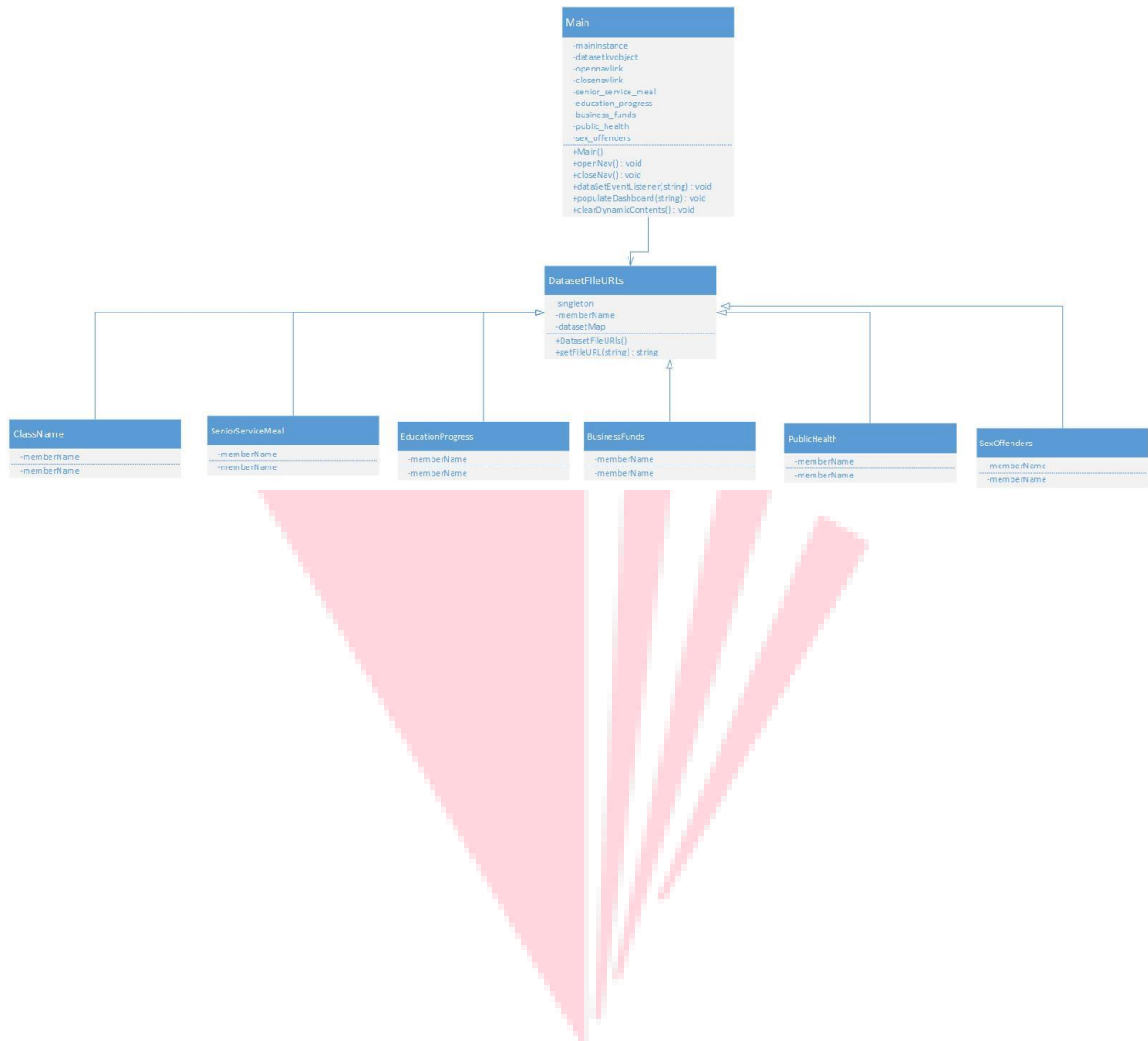
● TEMPLATE



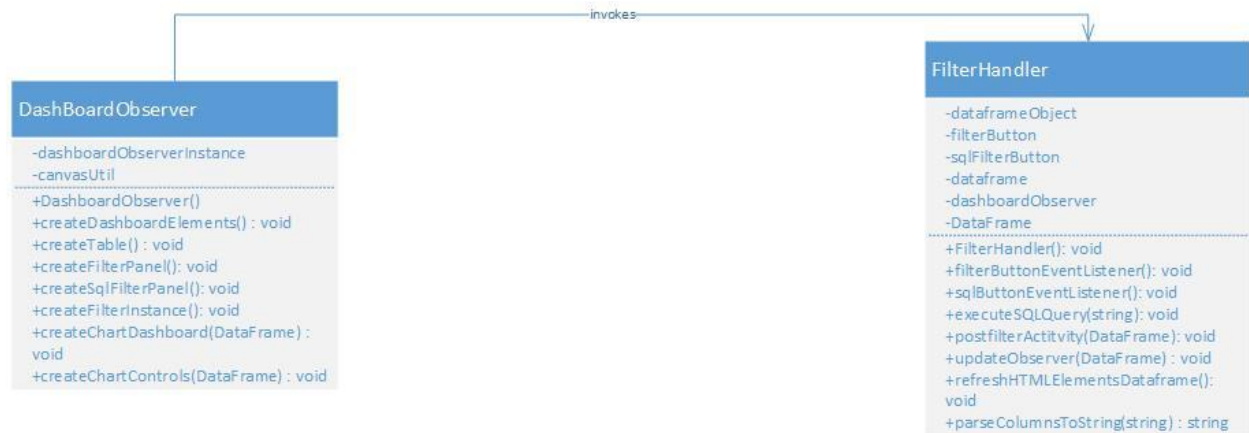
- DECORATOR



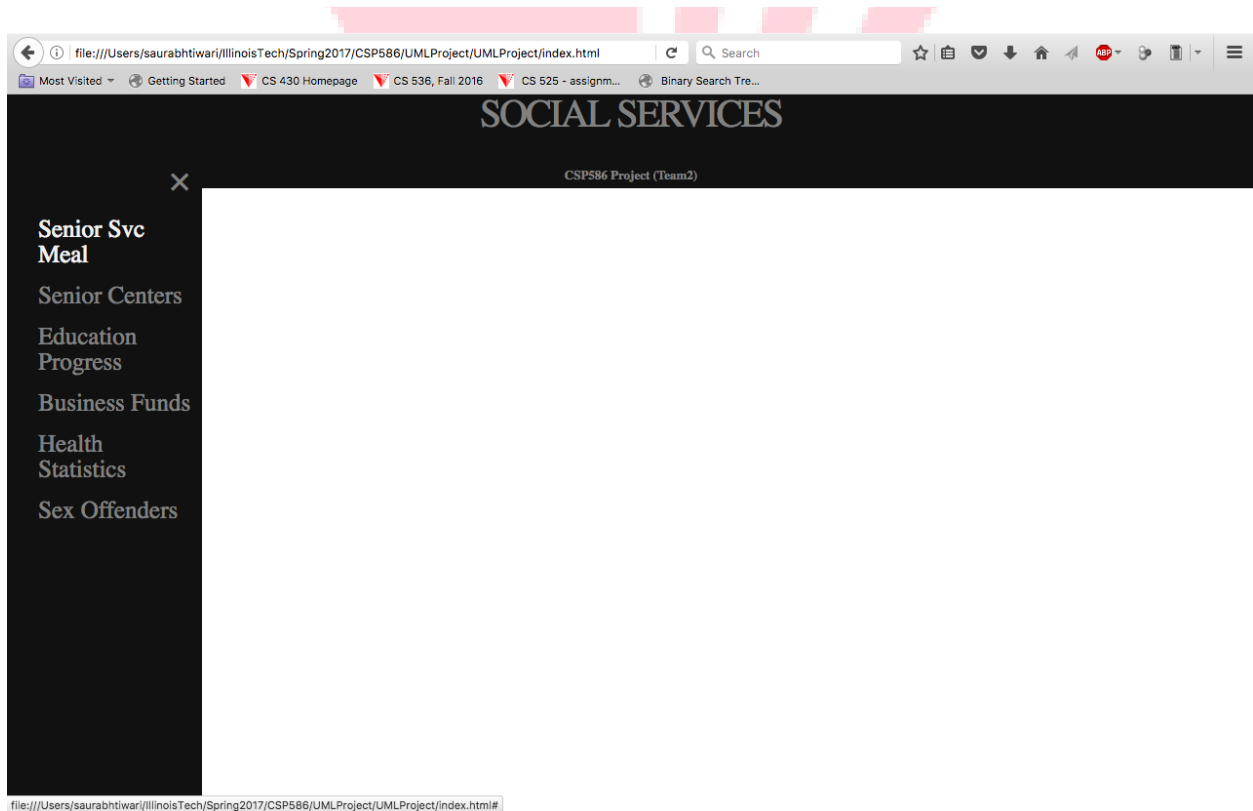
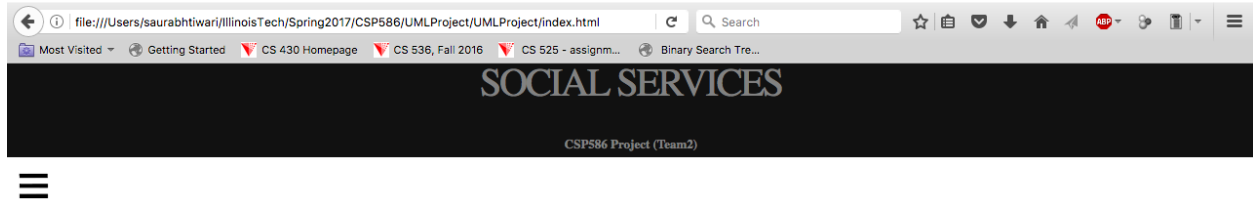
• FACTORY METHOD



● COMMAND



SCREENSHOTS



file:///Users/saurabhtiwari/IllinoisTech/Spring2017/CSP586/UMLProject/UMLProject/index.html#

file:///Users/saurabh.../UMLProject/UMLProject/index.html#

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SOCIAL SERVICES

CSP586 Project (Team2)

CommunityArea	CommunityAreaName	Births1999	BirthRate1999	BirthRate1999LowerCI	BirthRate1999UpperCI	Births2000	BirthRate2000	BirthRate2000LowerCI	BirthRate2000UpperCI
1	Rogers Park	1233	19.4	18.3	20.5	1267	20	18.9	21.1
2	West Ridge	1227	16.8	15.9	17.7	1268	17.3	16.3	18.3
3	Uptown	846	13.3	12.4	14.2	881	13.9	13	14.8
4	Lincoln Square	685	15.4	14.2	16.6	663	14.9	13.8	16
5	North Center	493	15.5	14.1	16.9	583	18.3	16.8	19.8
6	Lake View	1021	10.8	10.1	11.5	1058	11.2	10.5	11.9
7	Lincoln Park	850	13.2	12.3	14.1	836	13	12.1	13.9
8	Near North Side	736	10.1	9.4	10.8	771	10.6	9.9	11.3
9	Edison Park	134	11.9	9.9	13.9	145	12.9	10.8	15
10	Norwood Park	425	11.3	10.2	12.4	420	11.1	10	12.2
11	Jefferson Park	338	13.1	11.7	14.5	293	11.3	10	12.6
12	Forest Glen	265	14.6	12.8	16.4	232	12.8	11.2	14.4
13	North Park	282	15.2	13.4	17	274	14.8	13	16.6
14	Albany Park	1178	20.4	19.2	21.6	1231	21.2	20	22.4

Select Filter=Filter

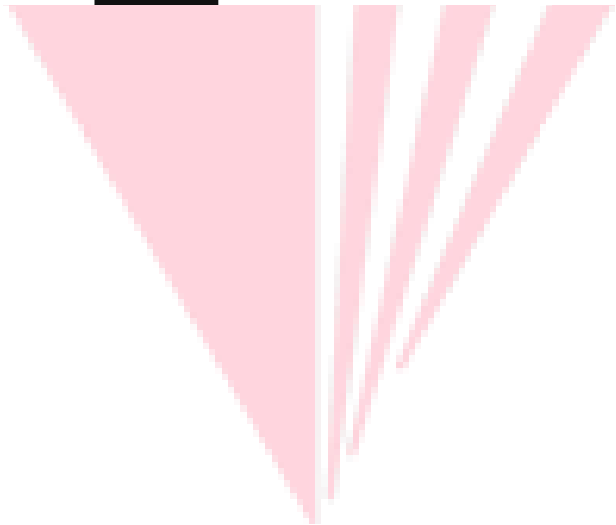
SQL Filter

Select Chart Type

X-AxisFrequency

Y-AxisStack-A-Y-AxisStack-B-Y-Axis

SumMeanStd DeviationMaximumMinimumAverage



CSP586 Project (Team2)



Month	Year	HomeDelieveredMeals	CongregateDiningProgram
11-Jan	2011	294310	60500
11-Feb	2011	265370	56176
11-Mar	2011	317833	69730
11-Apr	2011	294102	66780
11-May	2011	306915	65871
11-Jun	2011	306224	65306
11-Jul	2011	293167	61971
11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228022	62000

Select Filter = Filter

SQL Filter

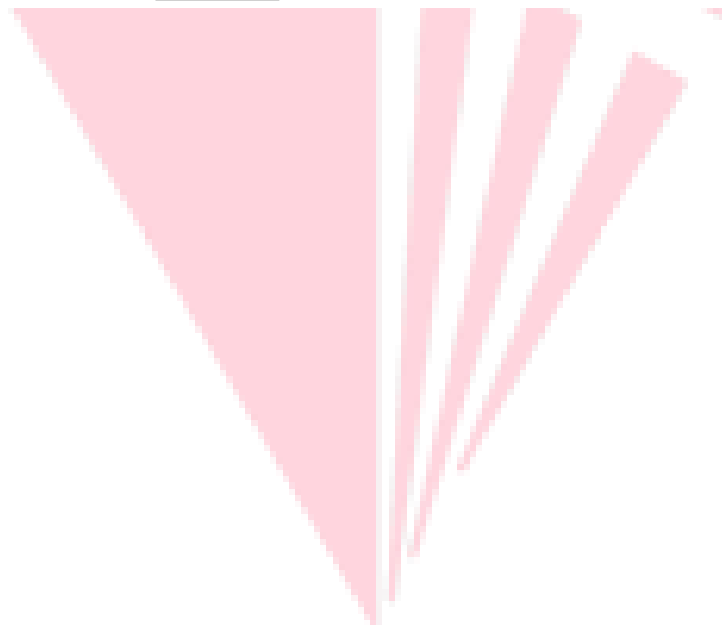
Select Chart Type

X-Axis Y-Axis Frequency

Stack-A-Y-Axis Stack-B-Y-Axis

Sum Mean Std Deviation Maximum Minimum Average

Create Chart

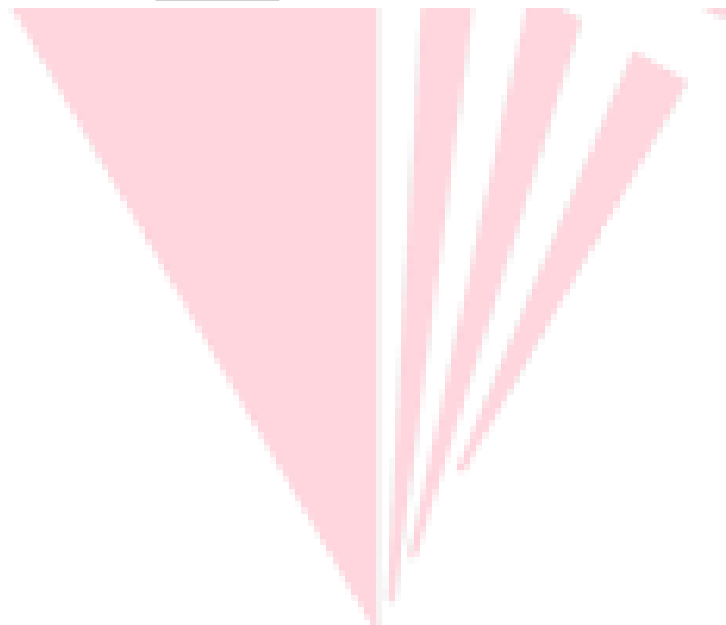


CSP586 Project (Team2)

Month	Year	HomeDelieveredMeals	CongregateDiningProgram
11-Jan	2011	294310	60500
11-Feb	2011	265370	56176
11-Mar	2011	317833	69730
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11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228022	60000

Year 2012 Filter
Select Filter
Month SQL Filter
Year
HomeDelieveredMeals
CongregateDiningProgram
Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis
Sum Mean Std Deviation Maximum Minimum Average

Create Chart



CSP586 Project (Team2)



Month	Year	HomeDelieveredMeals	CongregateDiningProgram
13-Jan	2013	240254	63024
13-Feb	2013	207160	57570
13-Mar	2013	216632	62696
13-Apr	2013	221322	66115
13-May	2013	228286	66125
13-Jun	2013	196547	61461
13-Aug	2013	219776	65346
13-Sep	2013	209047	66272
13-Oct	2013	196848	60603
13-Nov	2013	212673	70054
13-Dec	2013	199514	61353
14-Jan	2014	207000	59071
14-Feb	2014	179574	57603
14-Mar	2014	180342	64100

Select Filter = Filter

SQL Filter

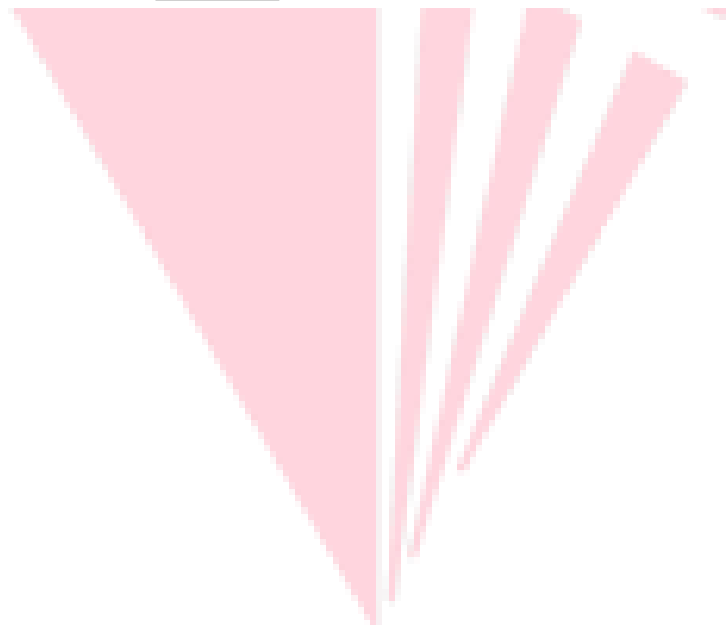
Select Chart Type

X-Axis Frequency

Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis

Sum Mean Std Deviation Maximum Minimum Average

Create Chart



CSP586 Project (Team2)

15-Jul	2015	206360	70085
15-Aug	2015	193190	65733
15-Sep	2015	210003	76458
15-Oct	2015	210414	70962
15-Nov	2015	206932	62762
15-Dec	2015	217046	68246
16-Jan	2016	198738	62918
16-Feb	2016	196788	63843
16-Mar	2016	212663	71018
16-Apr	2016	193836	67155
16-May	2016	199817	66591
16-Jun	2016	199042	68620
16-Jul	2016	189673	63336
16-Aug	2016	202649	70860
16-Sep	2016	191523	73958

Select Filter = Filter

from table where Year=2016 SQL Filter

Select Chart Type

X-Axis Frequency ☐

Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☐

Create Chart

Select Filter = Filter

SQL Filter

Bar Chart

Year Frequency ☐

Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☐

Create Chart

CSP586 Project (Team2)



Month	Year	HomeDelieveredMeals	CongregateDiningProgram
11-Jan	2011	294310	60500
11-Feb	2011	265370	56176
11-Mar	2011	317833	69730
11-Apr	2011	294102	66780
11-May	2011	306915	65871
11-Jun	2011	306224	65306
11-Jul	2011	293167	61971
11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	238077	60000

Select Filter = Filter

SQL Filter

Bar Chart

Year Frequency

Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☐

Create Chart



11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	238077	60000

Select Filter = Filter

SQL Filter

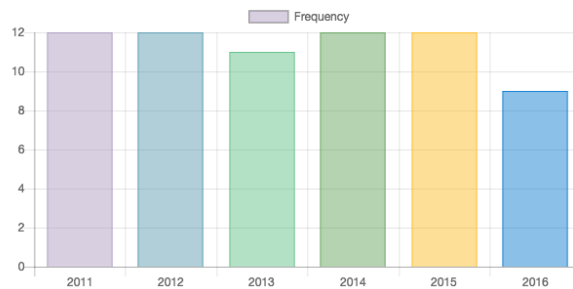
Bar Chart

Year Frequency

Y-Axis Stack-A-Y-Axis Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☐

Create Chart



11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228077	62020

Select Filter = Filter

SQL Filter

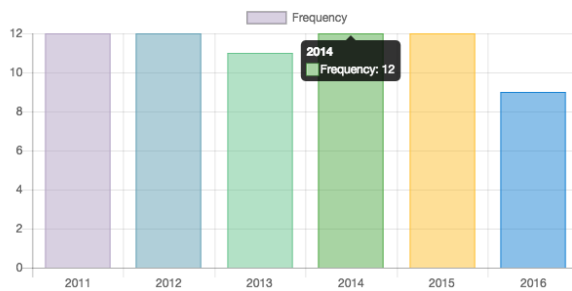
Bar Chart

Year Frequency

HomeDelleveredMea Stack-A-Y-Axis Stack-B-Y-Axis

Sum Mean Std Deviation Maximum Minimum Average

Create Chart



11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228077	60000

Select Filter = Filter

SQL Filter

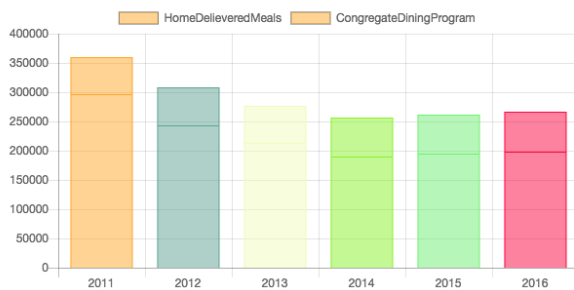
Bar Chart

Year Frequency ☐

HomeDeliveredMea CongregateDiningPrc Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☒

Create Chart



11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228077	60000

Select Filter = Filter

SQL Filter

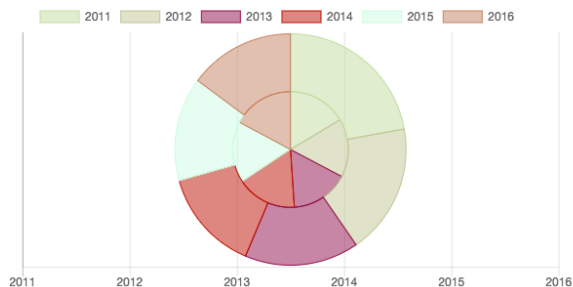
Pie Chart

Year Frequency ☐

HomeDeliveredMea CongregateDiningPrc Stack-B-Y-Axis

Sum ☐ Mean ☐ Std Deviation ☐ Maximum ☐ Minimum ☐ Average ☒

Create Chart



11-Aug	2011	305689	69947
11-Sep	2011	301619	66316
11-Oct	2011	288568	65601
11-Nov	2011	292375	62380
11-Dec	2011	288568	62232
12-Jan	2012	254720	60169
12-Feb	2012	228077	62020

Select Filter = Filter

SQL Filter

Radar Chart

Year Frequency

HomeDeliveredMea CongregateDiningPrc Stack-B-Y-Axis

Sum Mean Std Deviation Maximum Minimum Average

Create Chart

