

# Custom Mass Transportation System

Requirements	Value (AHP)	Maintainability(Bubble)	Accessibility(Rank)	Correctness(HDM)	Effort (MM)	Total (Rank)	Selected (O/X)
Req 1. The system should have features such as Register, Sign-in, Sign-out	5	1	1	3	1	10(1)	O
Req 2. The Driver should be able to view Passenger requests.	2	2	6	6	3	16(3)	O
Req. 3. The system should accept orders through the internet.	9	3	4	7	2	23(6)	O
Req. 4. The Customer should be able to designate the route in advance.	3	7	5	4	3	19(5)	O
Req. 5. The system should accept orders through SMS.	6	4	3	1	2	14(2)	O
Req. 6. The system should accept orders through the call center.	7	6	2	2	2	17(4)	O
Req. 7. Managers should be able to manage orders through the internet.	4	5	10	5	1	24(7)	O
Req. 8. Manager should be able to configure User profile through the call center.	10	9	8	9	2	36(10)	X
Req. 9. Data transfer between a taxi and traffic manager should be possible	1	10	7	10	3	28(8)	X
Req. 10. Manager should be able to configure User profile through the internet	9	8	9	8	1	34(9)	O

# AHP

Value	Req 1	Req 2	Req 3	Req 4	Req 5	Req 6	Req 7	Req 8	Req 9	Req 10
Req 1	1	1/5	3	1/3	3	3	1	3	1/7	3
Req 2	5	1	7	3	7	7	5	7	1/3	7
Req 3	1/3	1/7	1	1/5	1	1	1/3	1	1/9	1
Req 4	3	1/3	5	1	5	5	3	5	1/5	5
Req 5	1/3	1/7	1	1/5	1	1	1/3	1	1/9	1
Req 6	1/3	1/7	1	1/5	1	1	1/3	1	1/9	1
Req 7	1	1/5	3	1/3	3	3	1	3	1/7	3
Req 8	1/3	1/7	1	1/5	1	1	1/3	1	1/9	1
Req 9	7	3	9	5	9	9	7	9	1	9
Req 10	1/3	1/7	1	1/5	1	1	1/3	1	1/9	1

# AHP Column Normalization

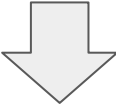
Value	Req 1	Req 2	Req 3	Req 4	Req 5	Req 6	Req 7	Req 8	Req 9	Req 10
Req 1	0.053571	0.036713	0.09375	0.03125	0.09315	0.09375	0.053571	0.09375	0.06016	0.09375
Req 2	0.264857	0.183566	0.21875	0.28125	0.21875	0.21875	0.267857	0.21875	0.140374	0.21875
Req 3	0.017857	0.026224	0.03125	0.01875	0.03125	0.03125	0.017857	0.03125	0.046791	0.03125
Req 4	0.160714	0.061189	0.15625	0.09375	0.15625	0.15625	0.160714	0.15625	0.046791	0.15625
Req 5	0.017857	0.026224	0.03125	0.01875	0.03125	0.03125	0.017857	0.03125	0.084225	0.03125
Req 6	0.017857	0.026224	0.03125	0.01875	0.03125	0.03125	0.017857	0.03125	0.064791	0.03125
Req 7	0.053571	0.036713	0.09375	0.03125	0.09375	0.09375	0.053571	0.09375	0.06016	0.09375
Req 8	0.017557	0.026224	0.03125	0.01875	0.03125	0.03125	0.017857	0.03125	0.046791	0.03125
Req 9	0.375	0.550699	0.28125	0.46875	0.28125	0.28125	0.375	0.28125	0.421123	0.28125
Req 10	0.017857	0.026224	0.03125	0.01875	0.03125	0.03125	0.017857	0.03125	0.046791	0.03125

# AHP Sum, Sum/10

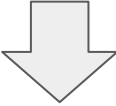
Value	Sum	Sum/10	Rank
Req 1	0.703415	0.0703415	5
Req 2	2.231654	0.223165	2
Req 3	0.283729	0.028373	9
Req 4	1.304408	0.130441	3
Req 5	0.321163	0.032116	6
Req 6	0.301729	0.030173	7
Req 7	0.704015	0.070402	4
Req 8	0.283429	0.028343	10
Req 9	3.596822	0.359682	1
Req 10	0.283729	0.028373	9
Total	10.01409	1.001409	

# Bubble Sort

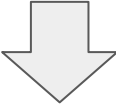
1	2	3	4	5	6	7	8	9	10
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1	2	3	5	6	7	4	8	10	9
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1	2	3	5	7	6	4	10	8	9
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1	2	3	5	7	6	4	10	8	9
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# Ranking

Accessibility	Rank
Req 1	1
Req 2	6
Req 3	4
Req 4	5
Req 5	3
Req 6	2
Req 7	10
Req 8	8
Req 9	7
Req 10	9

# Hundred Dollar Method

Correctness	Stakeholder1	Stakeholder2	Stakeholder3	Stakeholder4	Stakeholder5	Total	Rank
Req 1	20	15	10	5	3	53	3
Req 2	15	10	10	8	5	48	6
Req 3	10	10	5	5	13	43	7
Req 4	10	15	10	7	8	50	4
Req 5	10	10	10	25	20	75	1
Req 6	5	5	15	25	20	70	2
Req 7	10	10	10	10	8	48	5
Req 8	5	5	10	5	15	40	9
Req 9	5	10	10	5	3	33	10
Req 10	10	10	10	5	5	40	8