



Software Project Management

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2016.6.21

⇒ **CATALOG**



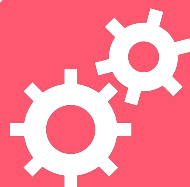
Project Summary



Project Planning



Cost Estimation



Resource Management





MAD



Moved Advertisement

Administrator

Advertisement
Platform

Mobile User

Advertiser

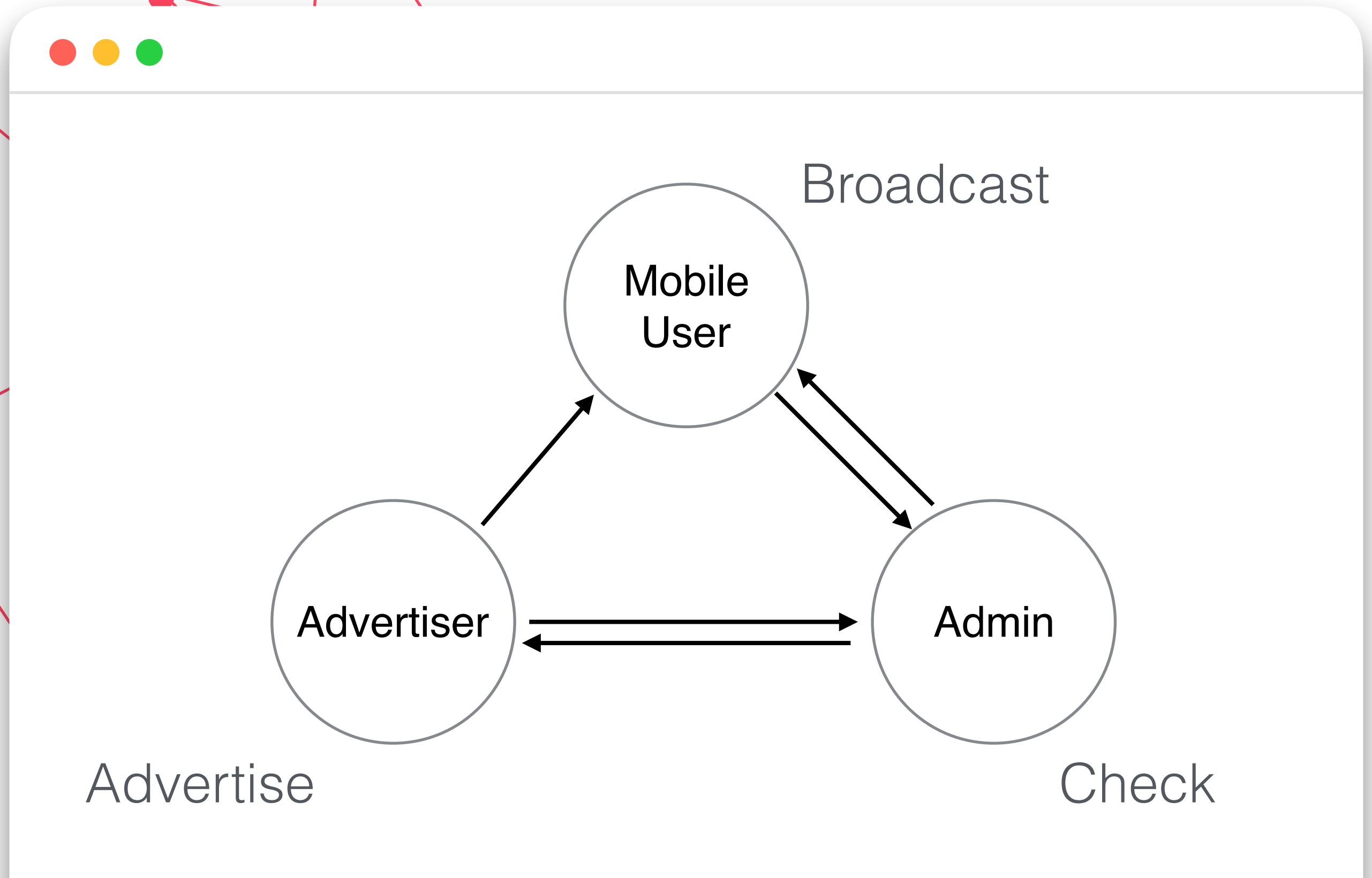


SCOPE

- 1.The user module: Mobile App
- 2.Advertisers module: Web App
- 3.The administrator module: Web App
- 4.Vehicle module: Mobile App

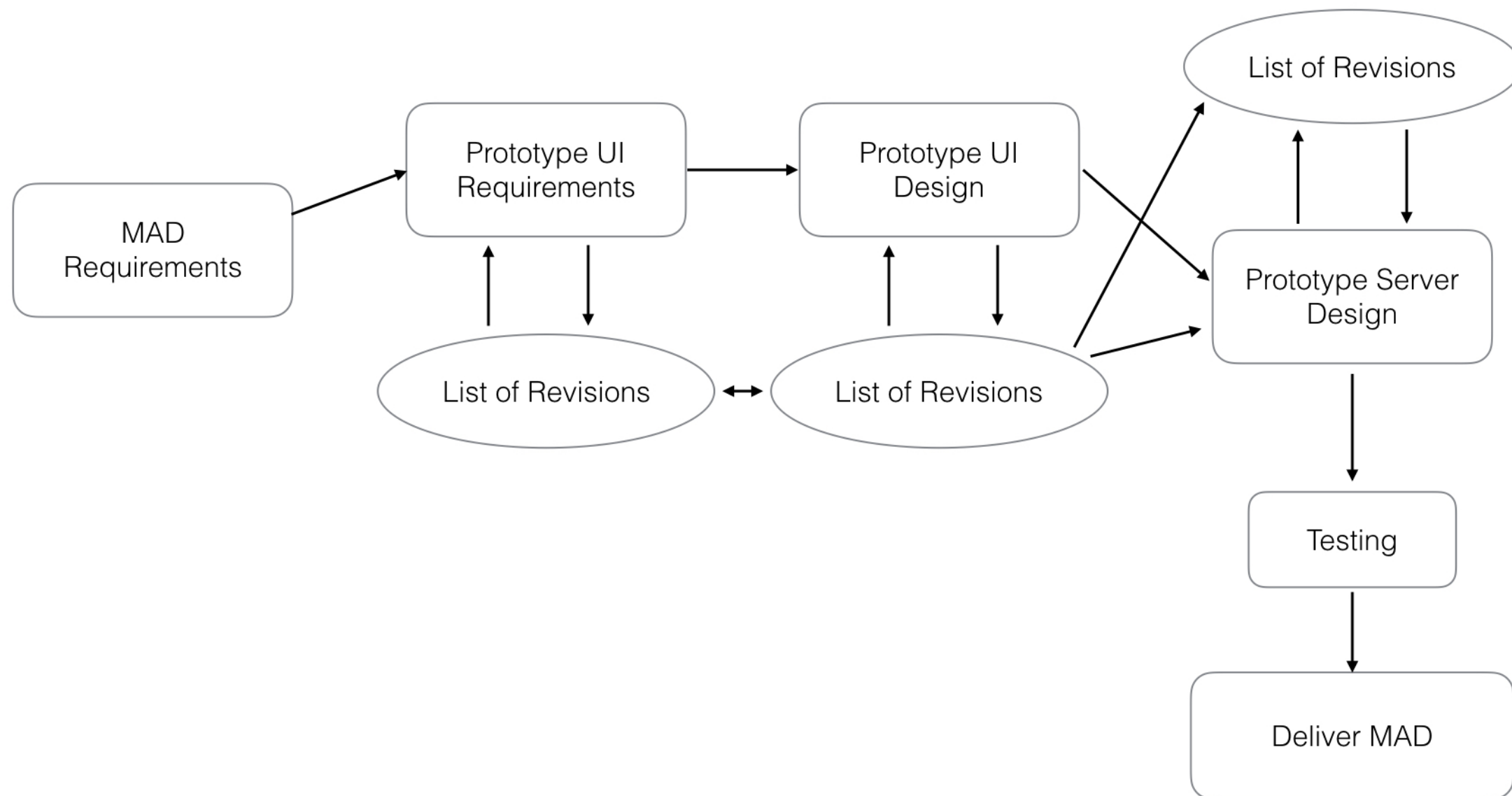


MAJOR FUNCTIONS





PLANNING



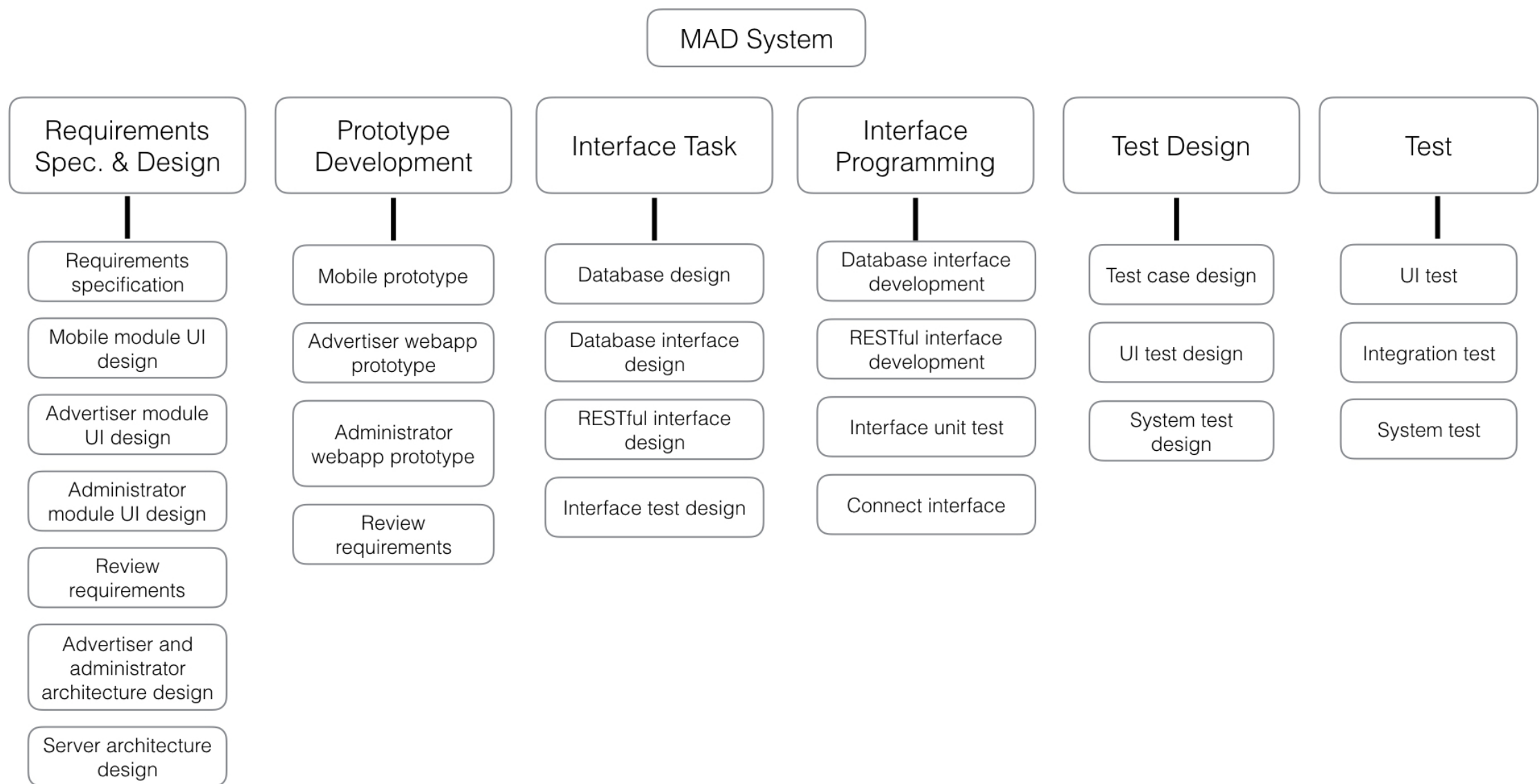


SCHEDULE

Status	Priority	Deadline	Task	Assignee
Requirements Spec. & Design				
<input type="checkbox"/>	1	3/16/16	Requirements specification	Develop team
<input type="checkbox"/>	1	3/23/16	Mobile module UI design	Xue Mengdi
<input type="checkbox"/>	1	3/23/16	Advertiser module UI design	Xue Mengdi
<input type="checkbox"/>	1	3/23/16	Administrator module UI design	Xue Mengdi
<input type="checkbox"/>	2	3/23/16	Review requirements	Huo Teng
<input type="checkbox"/>	1	3/25/16	Advertiser and administrator architecture design	Huo Teng
<input type="checkbox"/>	1	3/25/16	Server architecture design	Zhu Jiaye
Prototype Development Milestone				
<input type="checkbox"/>	1	4/6/16	Mobile prototype	Zhu Jiaye & Gao Jinqi
<input type="checkbox"/>	1	4/6/16	Advertiser webapp prototype	Xue Mengdi & Huo Teng
<input type="checkbox"/>	1	4/13/16	Administrator webapp prototype	Ji Xiang & Li Shunran
<input type="checkbox"/>	2	4/15/16	Review requirements	Develop team
Interface Task Milestone				
<input type="checkbox"/>	1	4/20/16	Database design	Zhu Jiaye
<input type="checkbox"/>	1	4/22/16	Database interface design	Zhu Jiaye
<input type="checkbox"/>	1	4/20/16	RESTful interface design	Huo Teng
<input type="checkbox"/>	2	4/22/16	Interface test design	Liu Jiayang
Interface Programming Milestone				
<input type="checkbox"/>	1	5/4/16	Database interface development	Zhu Jiaye
<input type="checkbox"/>	1	5/11/16	RESTful interface development	Ji Xiang
<input type="checkbox"/>	1	5/13/16	Interface unit test	Huo Teng
<input type="checkbox"/>	1	5/25/16	Connect interface	Develop team
Test Design Milestone				
<input type="checkbox"/>	1	6/1/16	Test case design	Liu Jiayang
<input type="checkbox"/>	1	6/1/16	UI test design	Liu Jiayang
<input type="checkbox"/>	2	6/3/16	System test design	Liu Jiayang
Test Milestone				
<input type="checkbox"/>	1	6/8/16	UI test	Liu Jiayang
<input type="checkbox"/>	1	6/10/16	Integration test	Develop team
<input type="checkbox"/>	1	6/15/16	System test	Develop team



WBS





RISK



Risks	Probability	Impact
Equipment failure	70%	1
Late delivery	30%	1
Technology will not meet expectations	25%	1
End users resist system	20%	1
Changes in requirements	20%	2
Deviation from software engineering standards	10%	3
Less reuse than planned	60%	3
Poor comments in code	20%	4

ESTIMATE

FPA

Value Adjustment Factor = (sum of (DI) * 0.01) + 0.65

Interface	Simple	Average	Complex
Internal Logical File	12	3	4
External Interface File	8	5	2
External Input	10	3	0
External Output	2	3	1
External Inquiry	0	1	0

- Interface: 245.98
- Total Function Points: 585.17
- MAD est. Person Months: 11.23
- LOC: = FP*30
- MAD est. Lines of Code: 17,555

ESTIMATE

COCOMO

$$E = ab(KLOC)$$

$$D = cd(E)$$

$$P = E/D$$

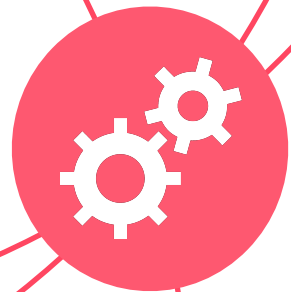
$$a = 3.0 \quad b = 1.12 \quad c = 2.5 \quad d = 0.35$$

- Effort (in Function Points) Estimate:
Total Function Points: 585.17
- Effort (in CoCoMo) Estimate:
Effort = 74.016
- Time in Person Months Estimate:
Function Point: 11.23
CoCoMo: 11.277
Average: 11.2535

PROFIT

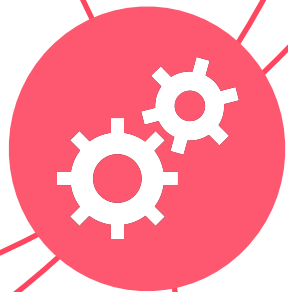
								unit:1000	
Year	0	1	2	3	4	5	6	7	8
Input Advertisement	100	100	150	200	250	300	400	600	700
Output									
Equipment	300	0	0	0	0	0	0	0	0
Server	2	2	2	10	10	10	10	10	10
O&M	200	200	200	200	200	200	200	200	200
Sum of output	502	202	202	210	210	210	210	210	210
Cash Flow	-402	-102	-52	-10	40	90	190	390	490
Discounted net cash-flow	-402	-92	-42	-7	26	53	101	187	211
Discount indicator (10%)	1.00	0.90	0.81	0.73	0.66	0.59	0.53	0.48	0.43
Accumulated discounted net cash-flow	-402	-494	-536	-543	-517	-464	-363	-176	35
IRR	3.93%								
DPP(10%)	7.20	year							

Resource Management



- 1. Files: Teambition**
- 2. Code & Review: Github**

Resource Management



Develop Team

UI Design

Prototype

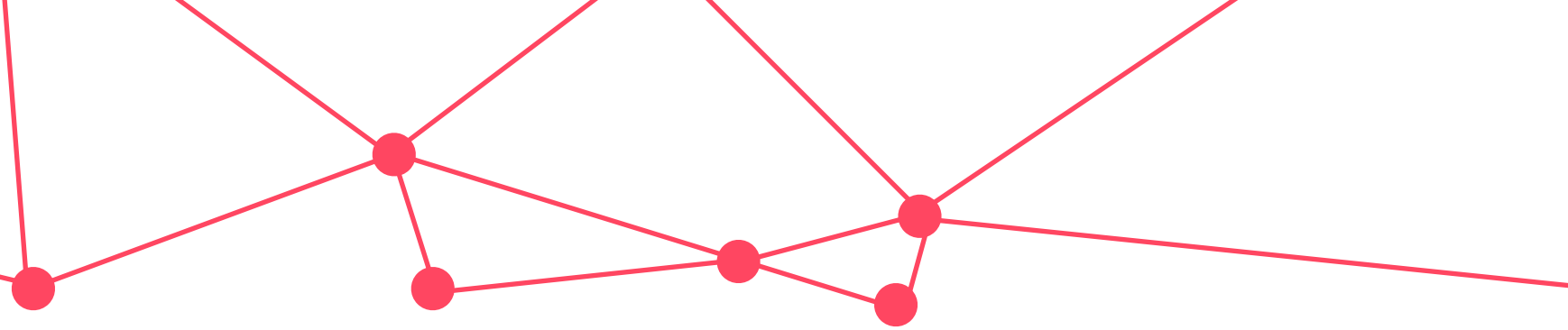
Unit Test

Documentation & Test Team

Document

Test Design

Test



**That's all,
thank you.**

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