



SeniorConnect

› Slide to start presentation

Product Introduction >

Technical Design >

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Project Management >

Change & Configuration Management >

Risk Management >



What We Deliver

Product Introduction





SeniorConnect

Make life easier

Communication

Chats



Friends

Community

Community



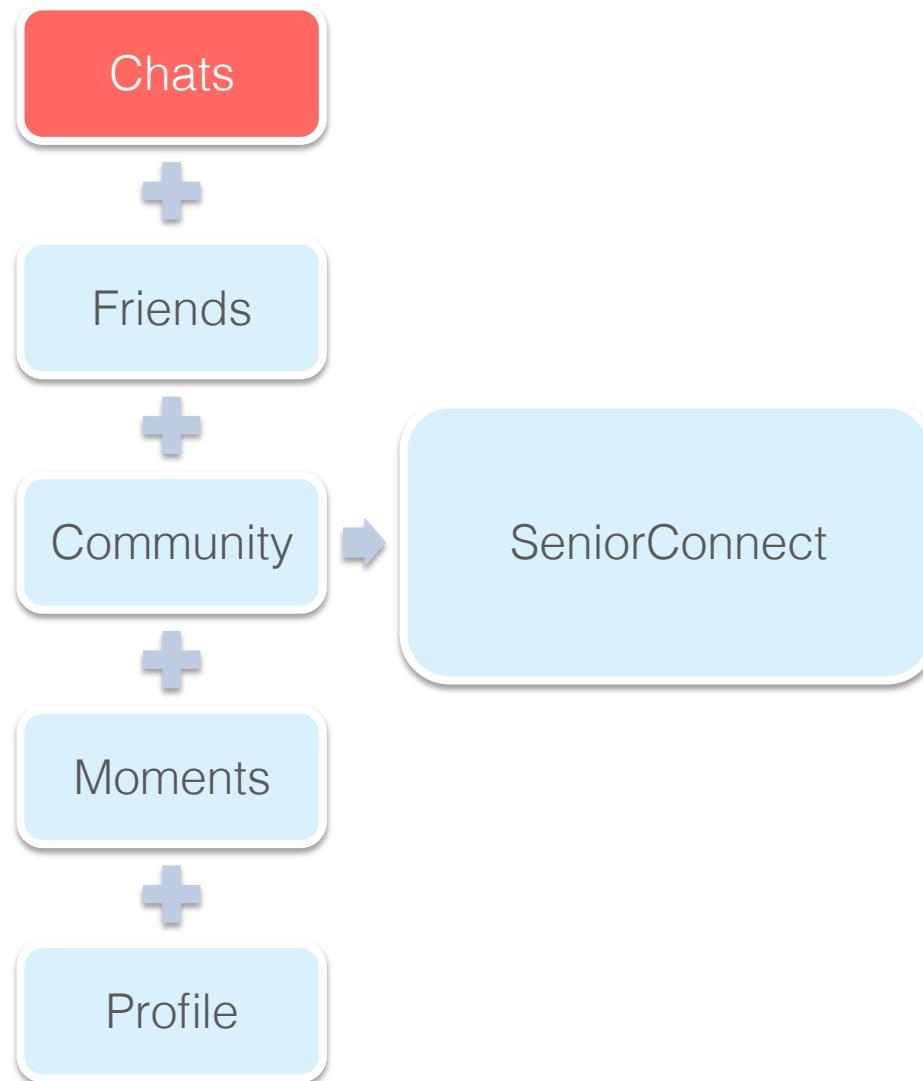
SeniorConnect

Life Sharing

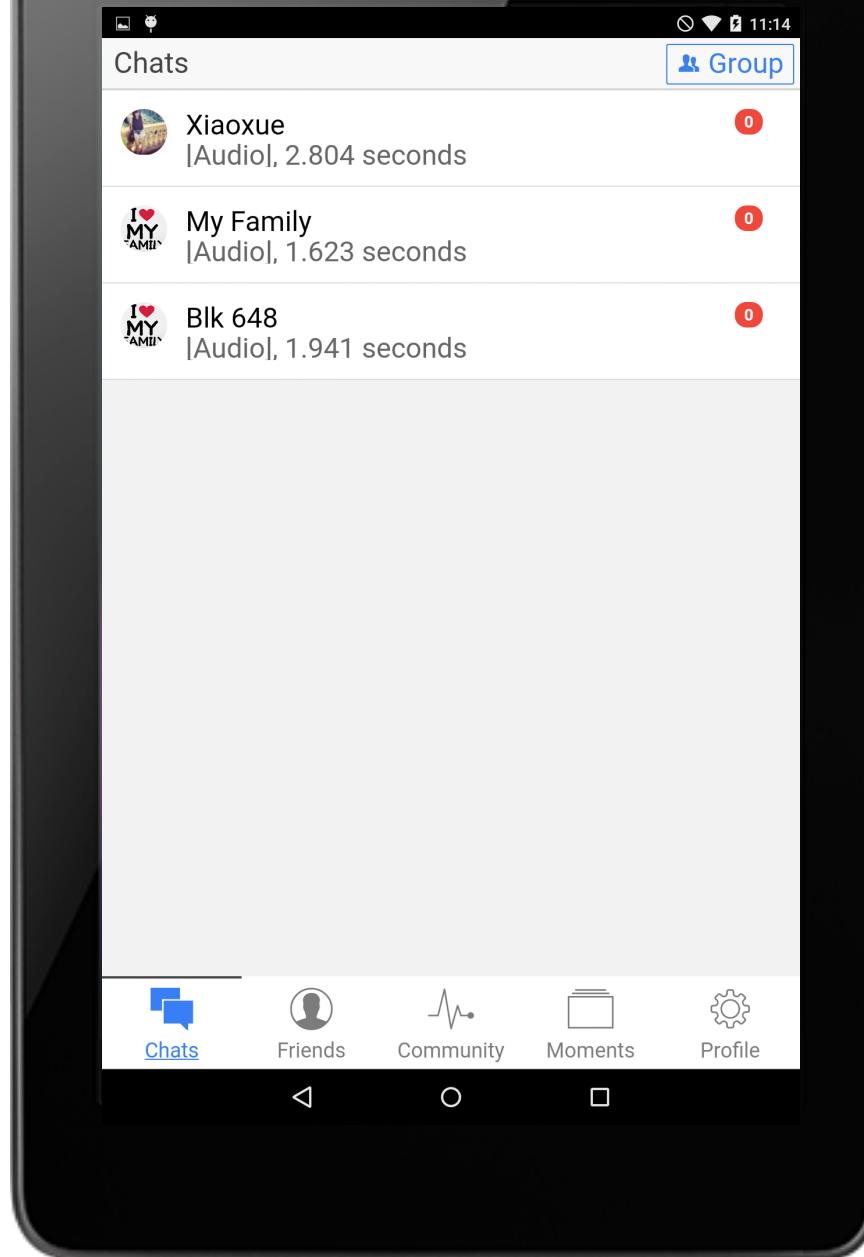
Moments



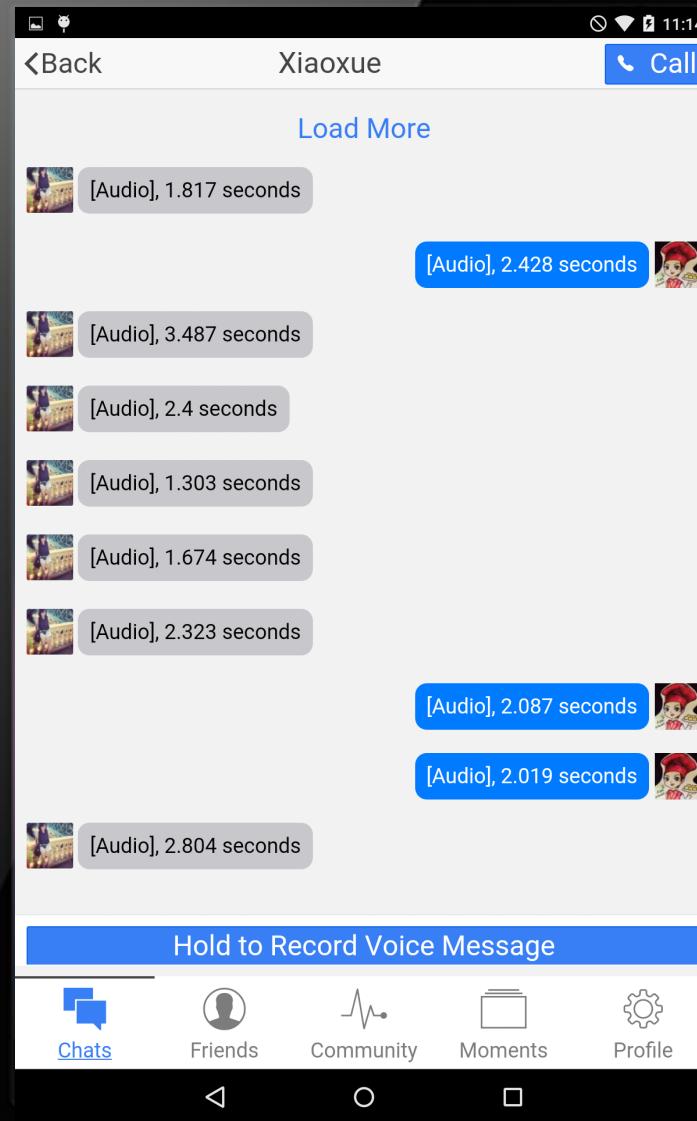
Profile



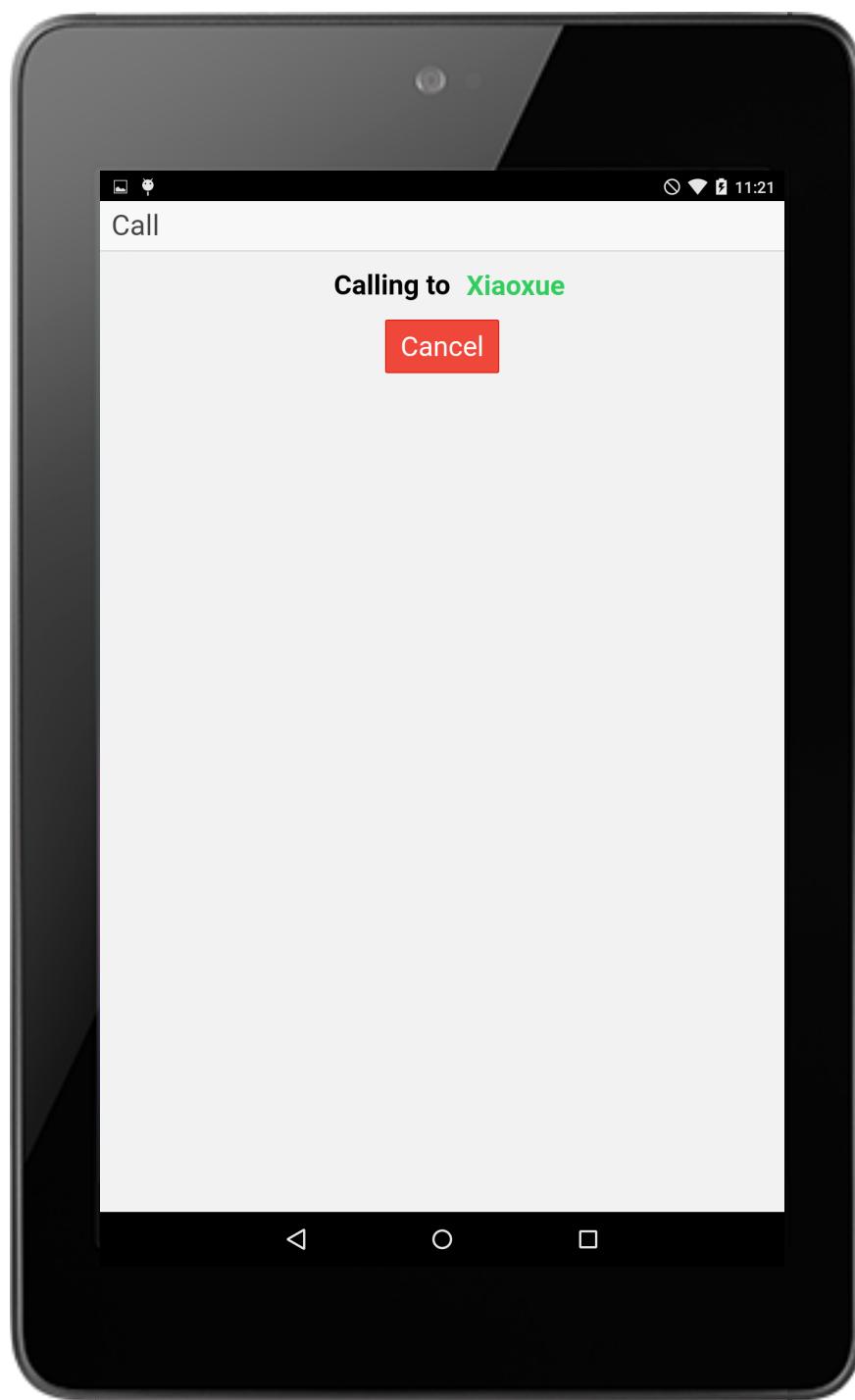
Chat Details



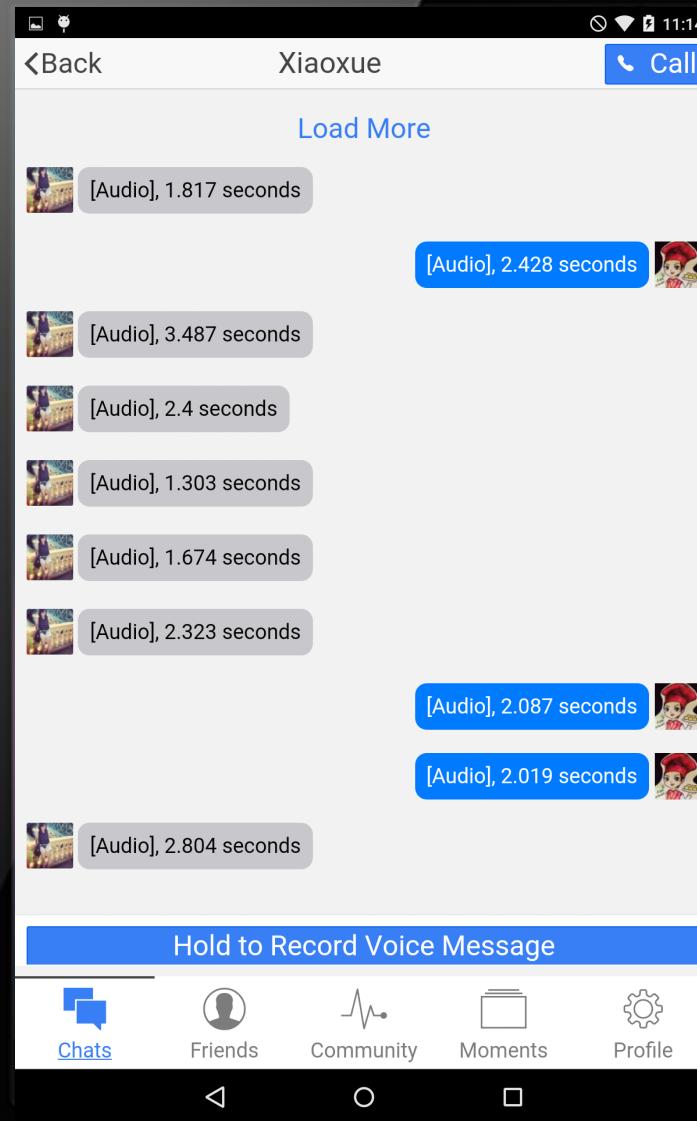
Chat Details



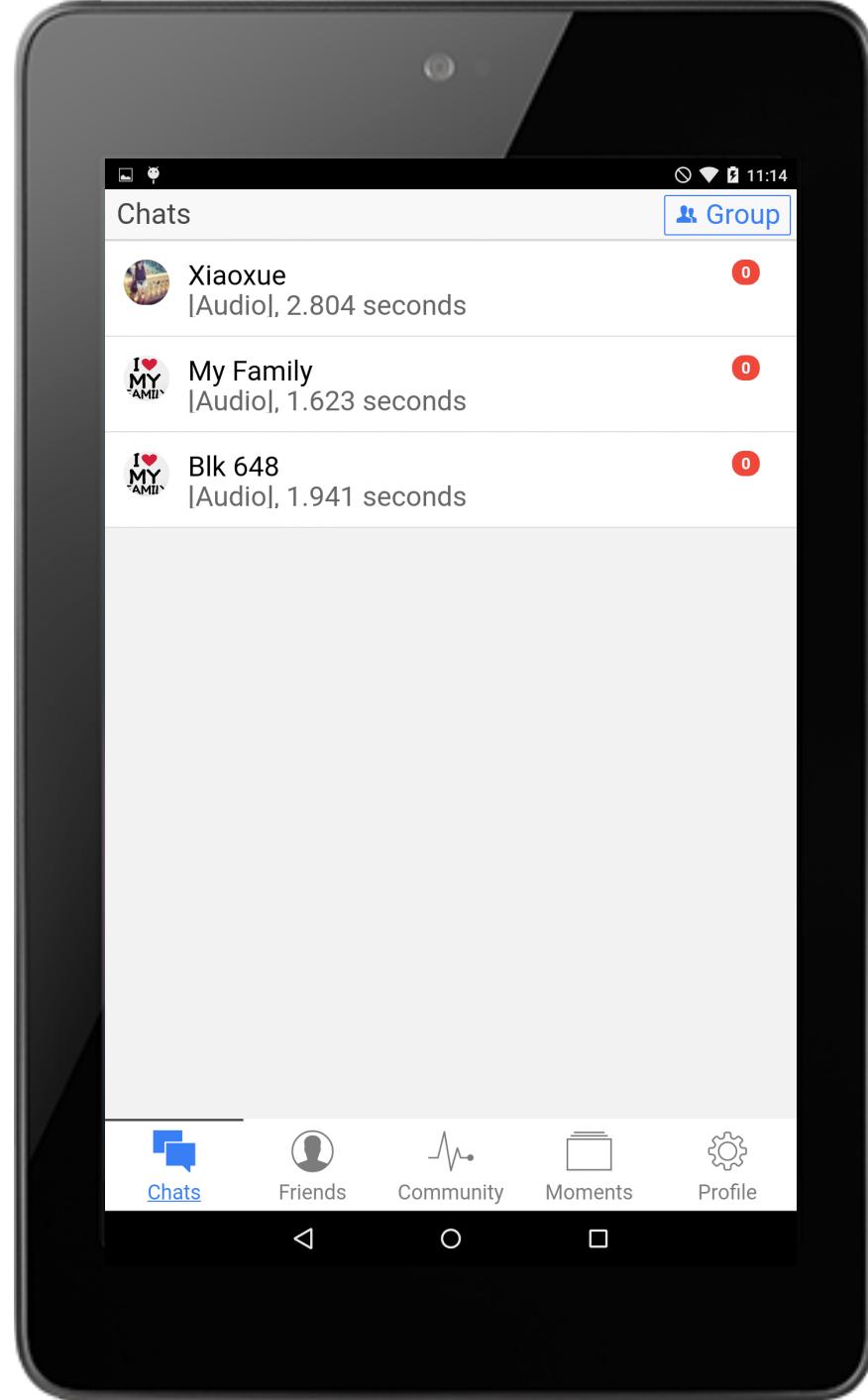
Call Details



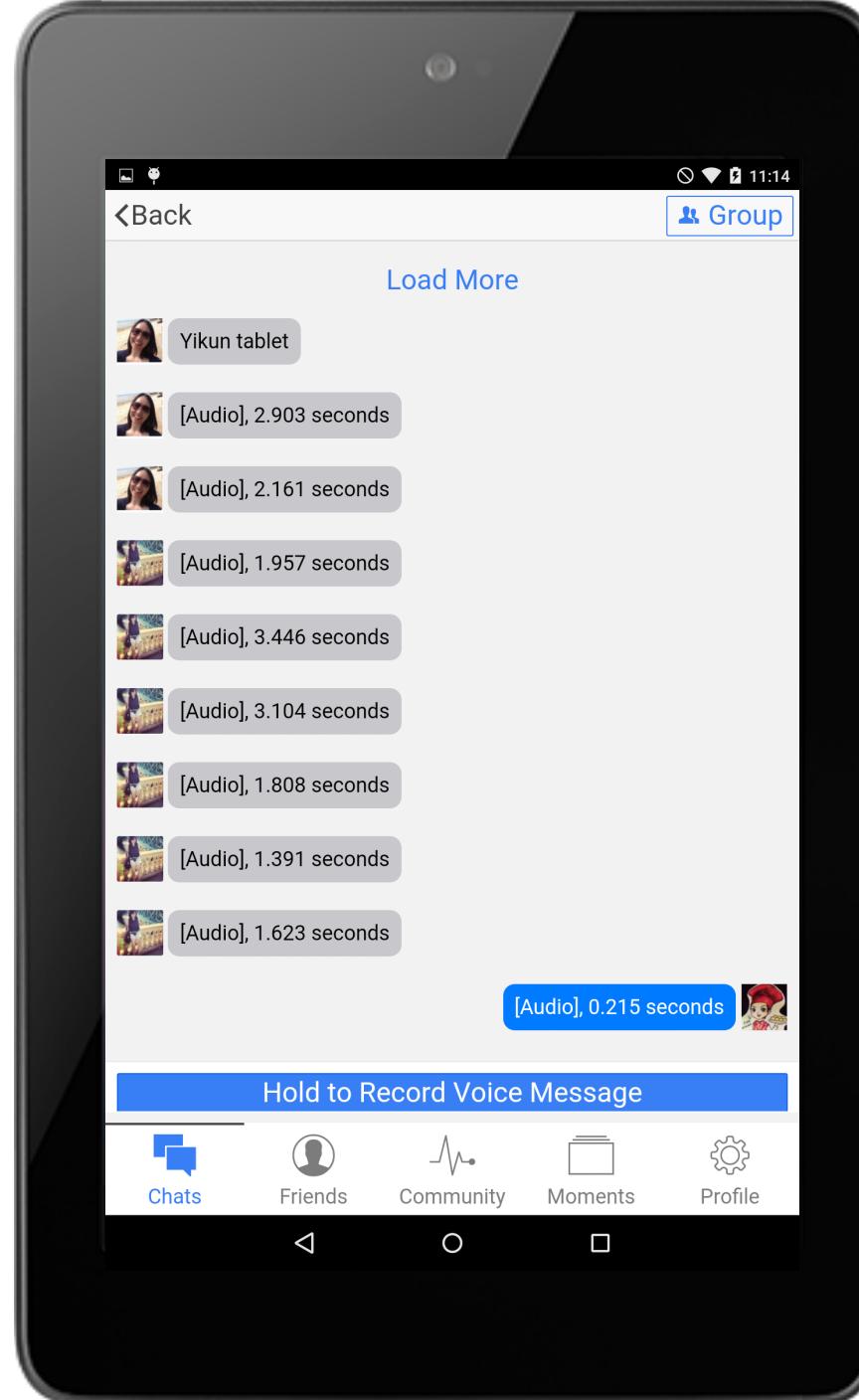
Chat Details

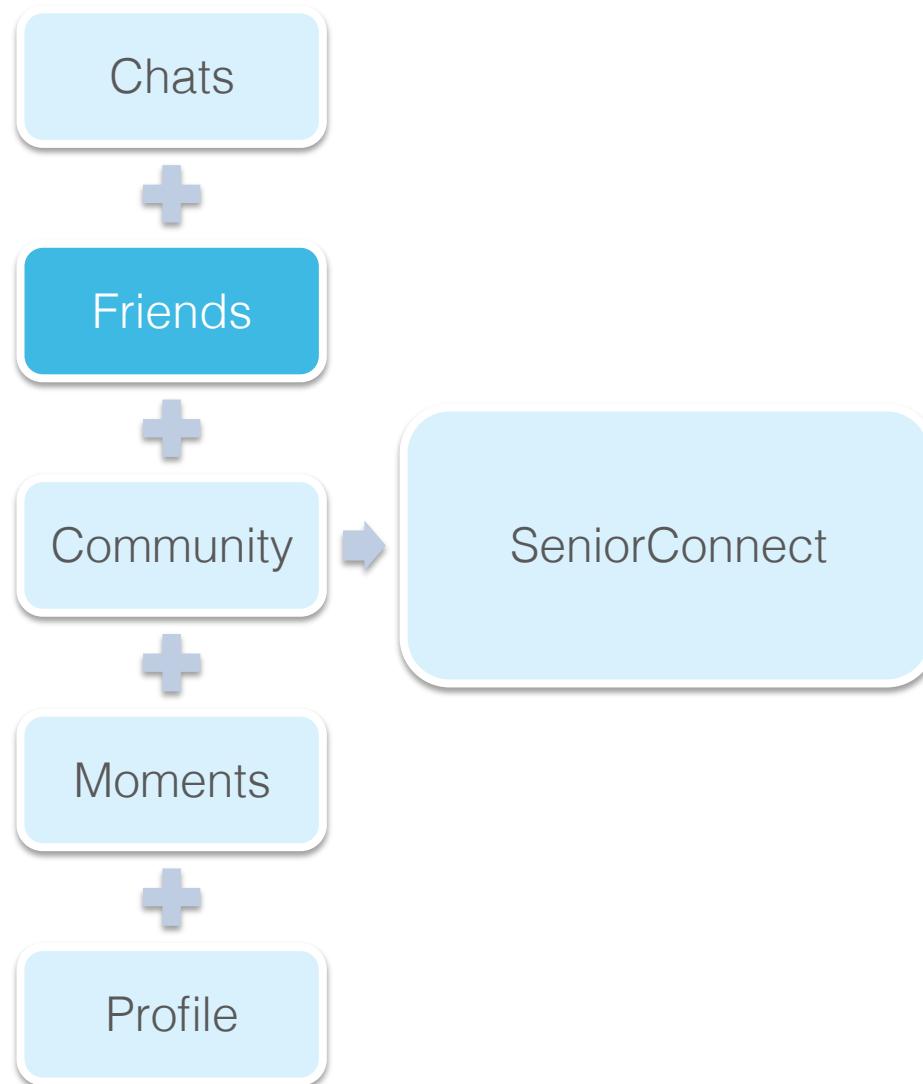


Chatpluschat

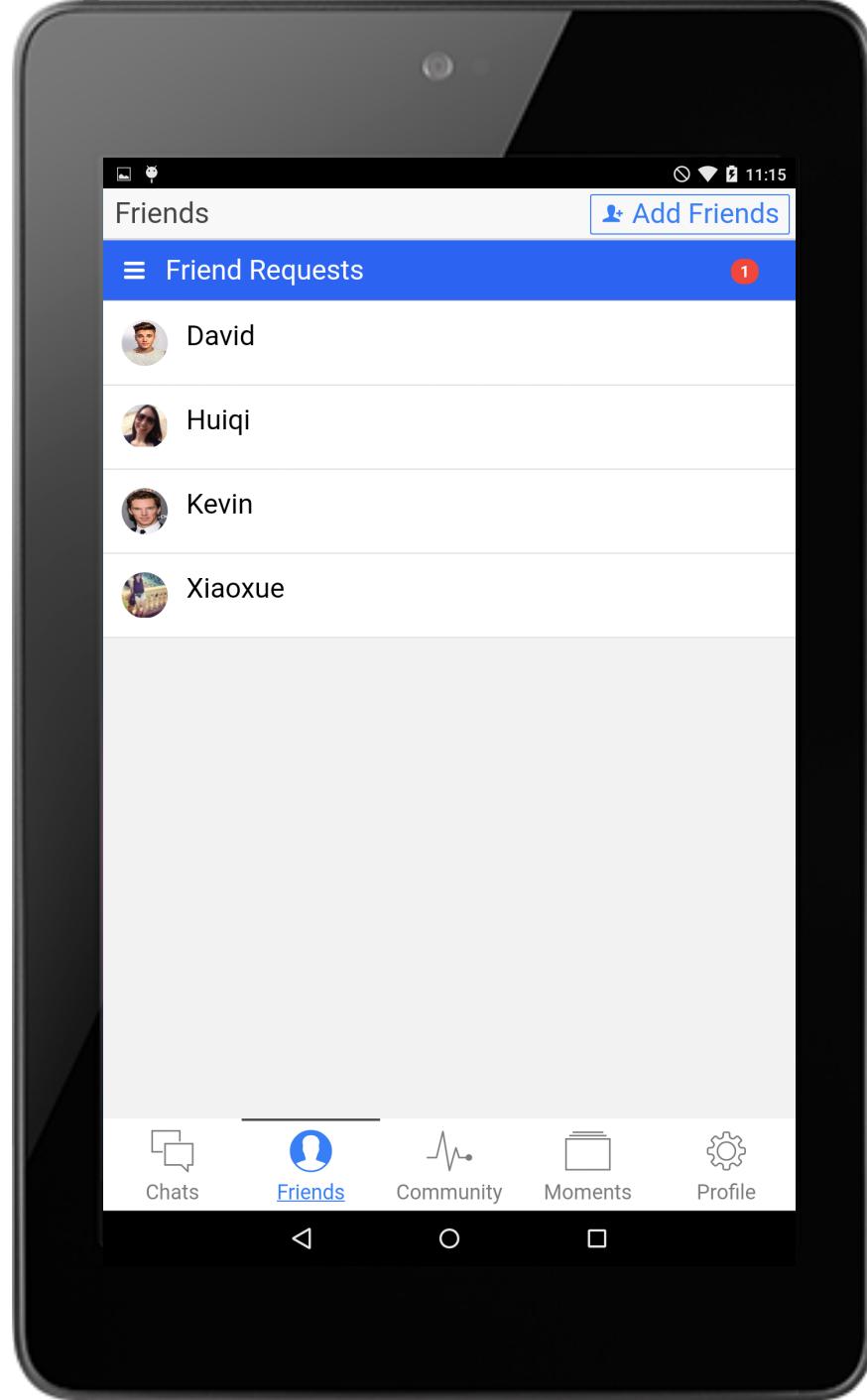


Ghatpishat

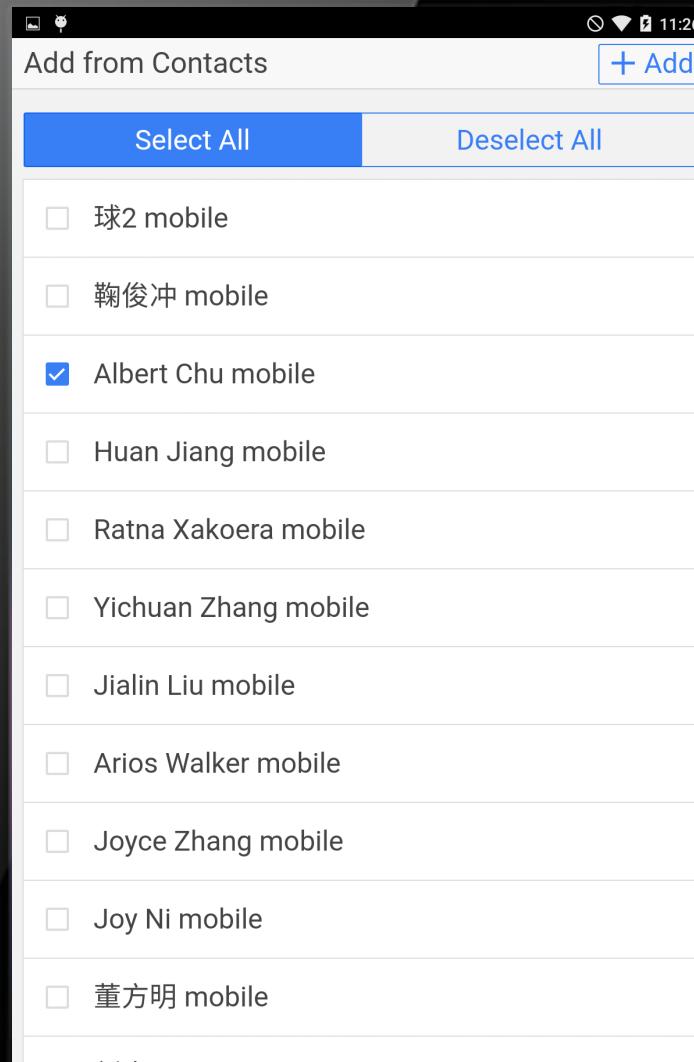




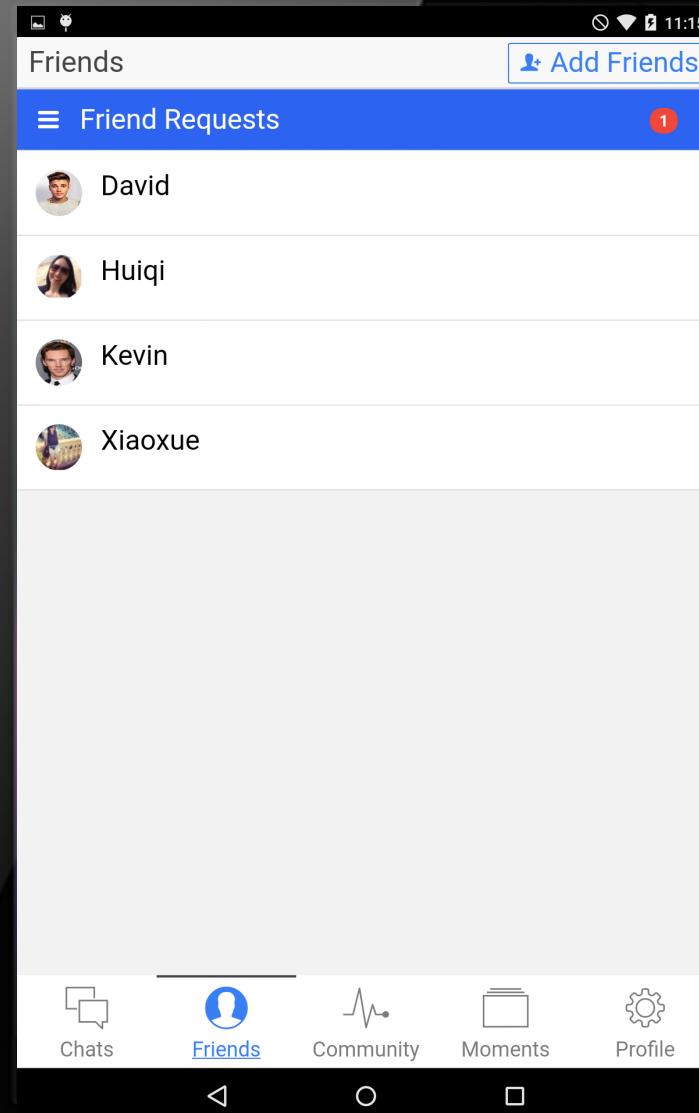
Archelist



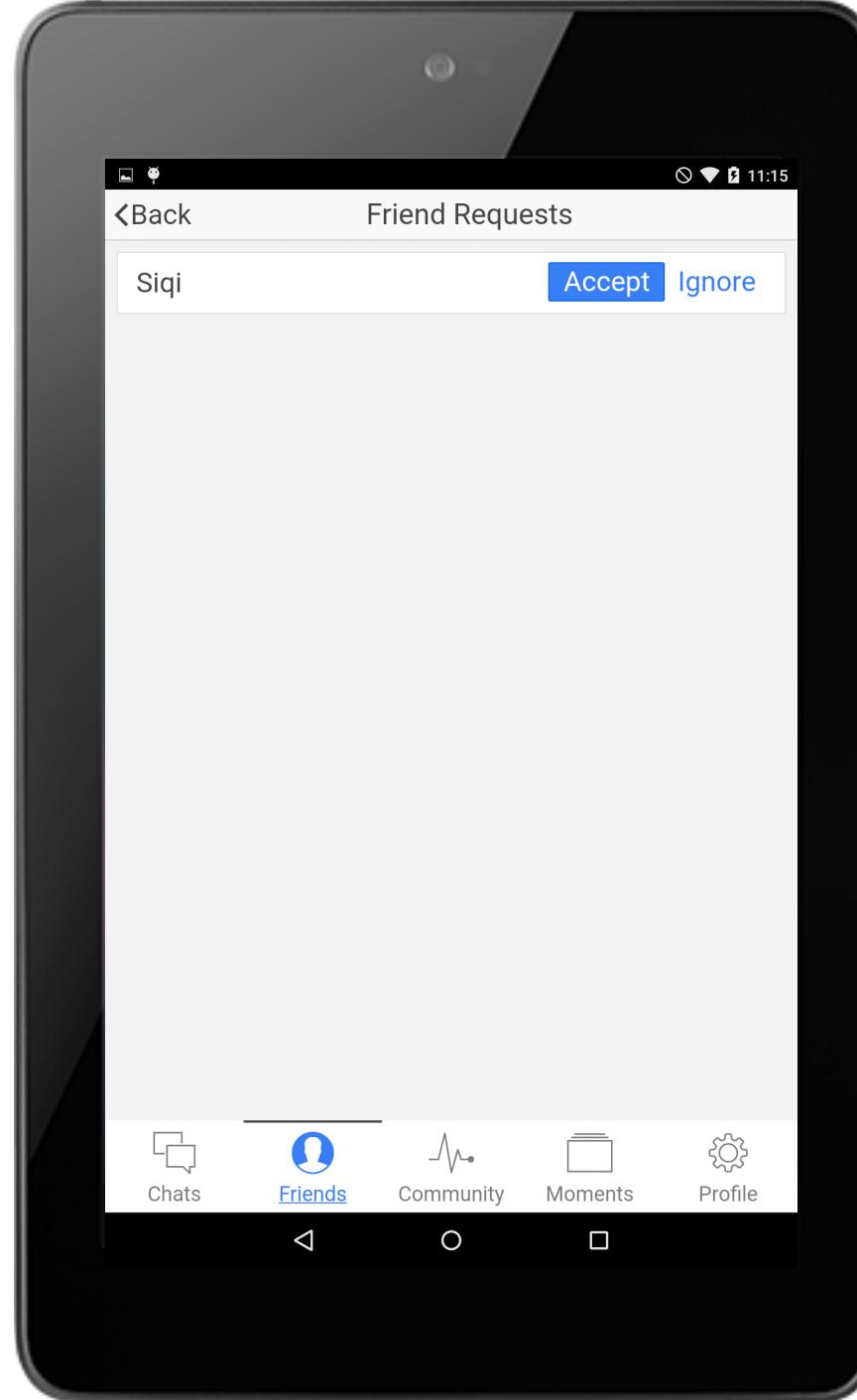
Archivelist



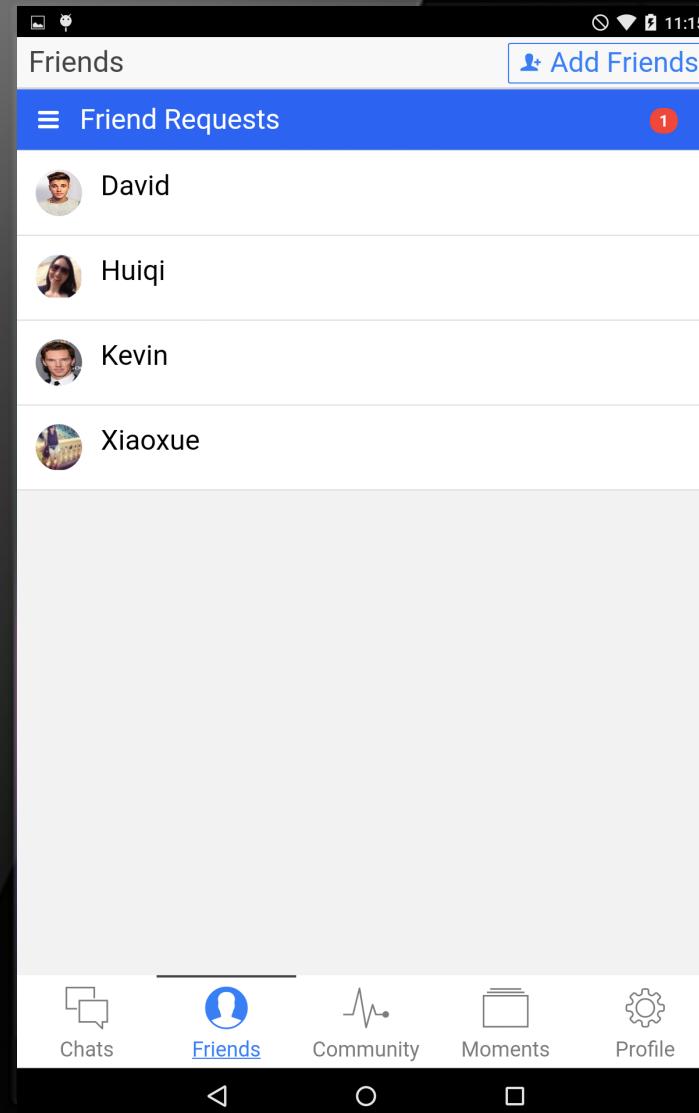
Friends Requests



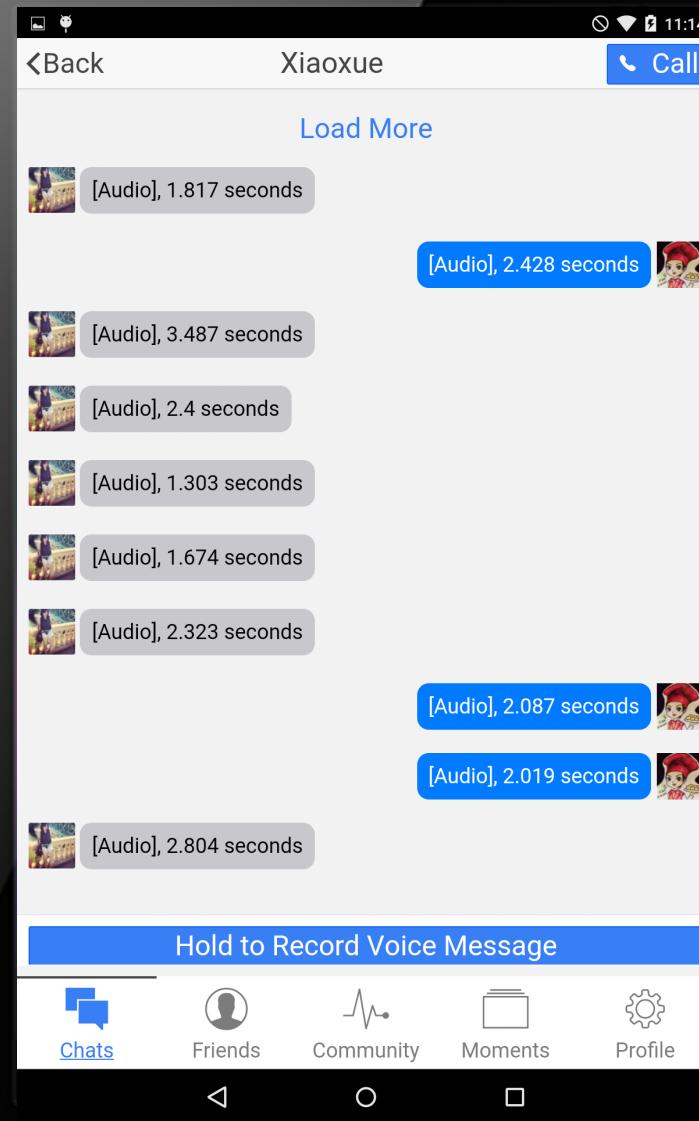
Friends Requests

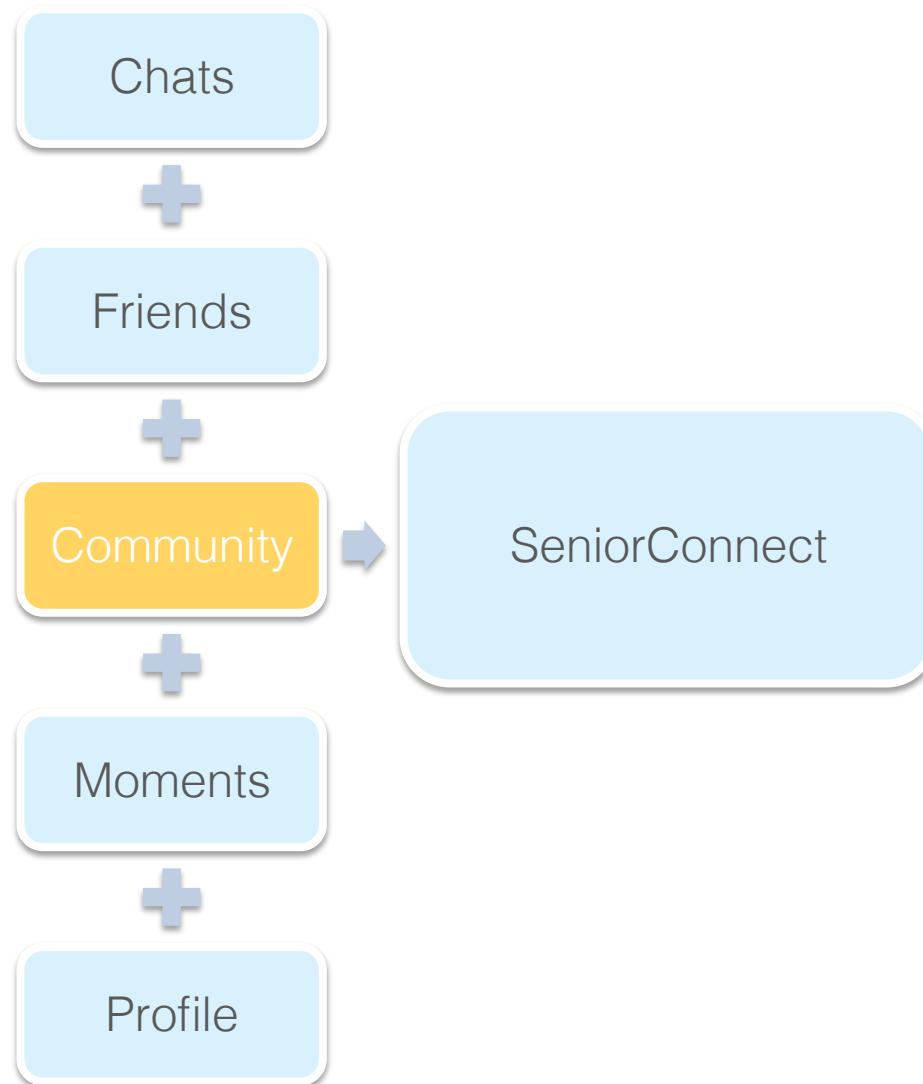


FriendsDetail

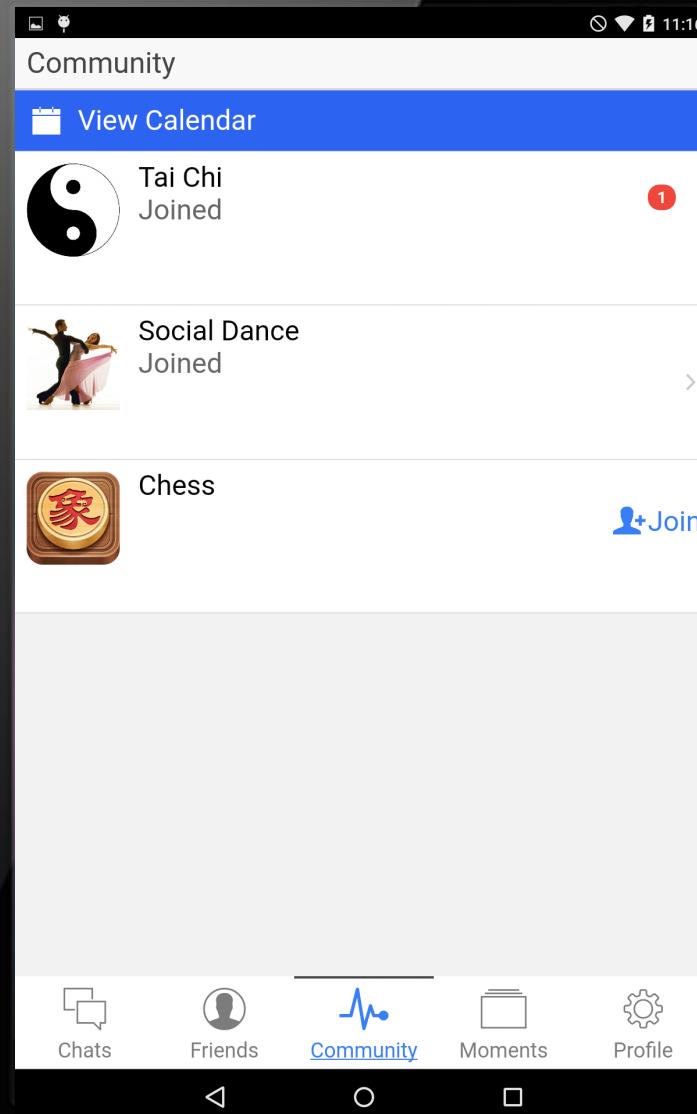


Ernest D. Etatihil





Community List



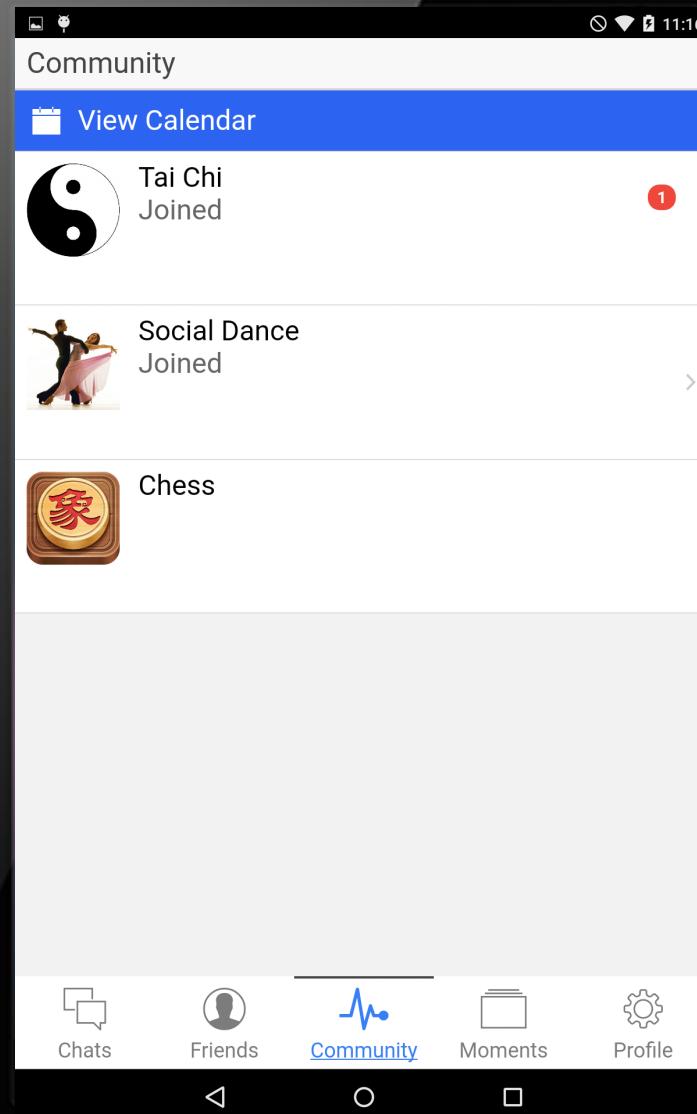
Community List

A screenshot of a smartphone displaying a mobile application interface. The screen shows a list of community events under the heading 'Chess'. The top navigation bar includes a back arrow, the title 'Chess', signal strength, battery level, and the time '11:17'. The main content area displays two event cards:

- Annual Chess Competiton**
The chess competition will have particip...
Date:Oct 22 2015
Time:18:30-19:30
- Chess and Chat**
Meet in Chinese Garden to play chess wi...
Date:Nov 12 2015
Time:09:00-11:00

The bottom navigation bar features five icons: Chats (two speech bubbles), Friends (person icon), Community (blue heart rate line icon, currently selected), Moments (photo album icon), and Profile (gear icon). Below the navigation bar are standard Android navigation buttons: back, home, and recent apps.

Community List



Join Event

Back Tai Chi

[Quit this Community](#)

Tai Chi Quan Workshop
Jennifer Chung is a Tai Chi trainer and M...
Date:Oct 13 2015
Time:18:30-19:30

[Cancel](#)

Tai Chi Quan Morning Exercise
Meet in Chinese Garden to do Tai Chi Qu...
Date:Every day
Time:08:00-10:00

[Cancel](#)

Chats Friends Community Moments Profile

Community List

Back Tai Chi

[Quit this Community](#)

Tai Chi Quan Workshop
Jennifer Chung is a Tai Chi trainer and M...
Date:Oct 13 2015
Time:18:30-19:30

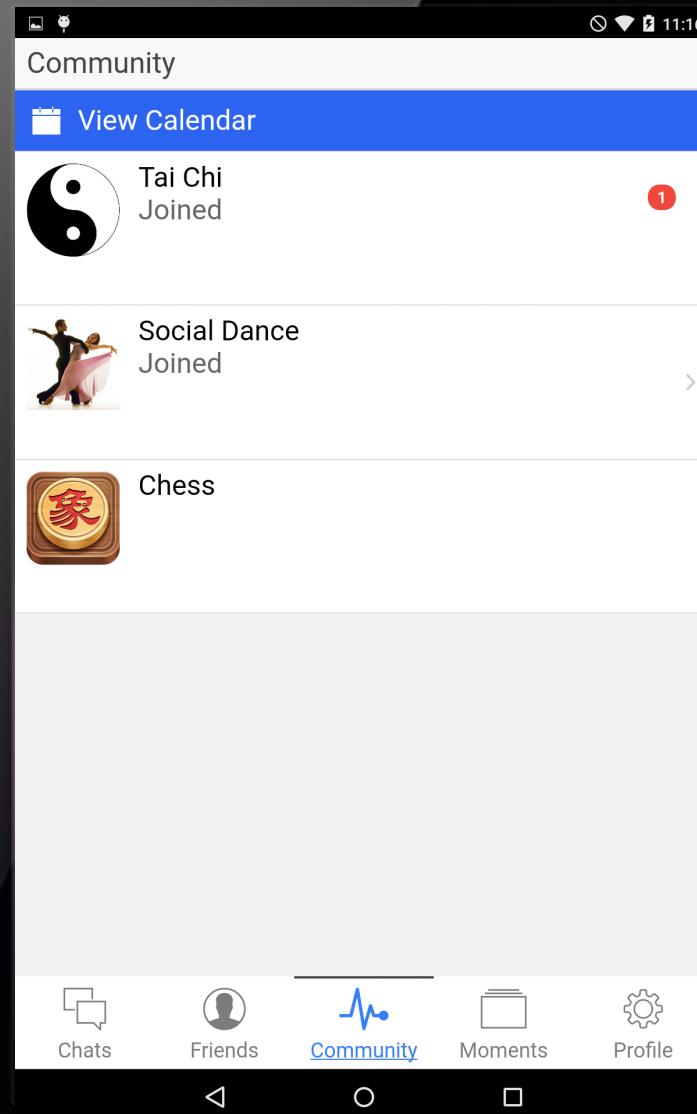
[Cancel](#)

Tai Chi Quan Morning Exercise
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Time:08:00-10:00

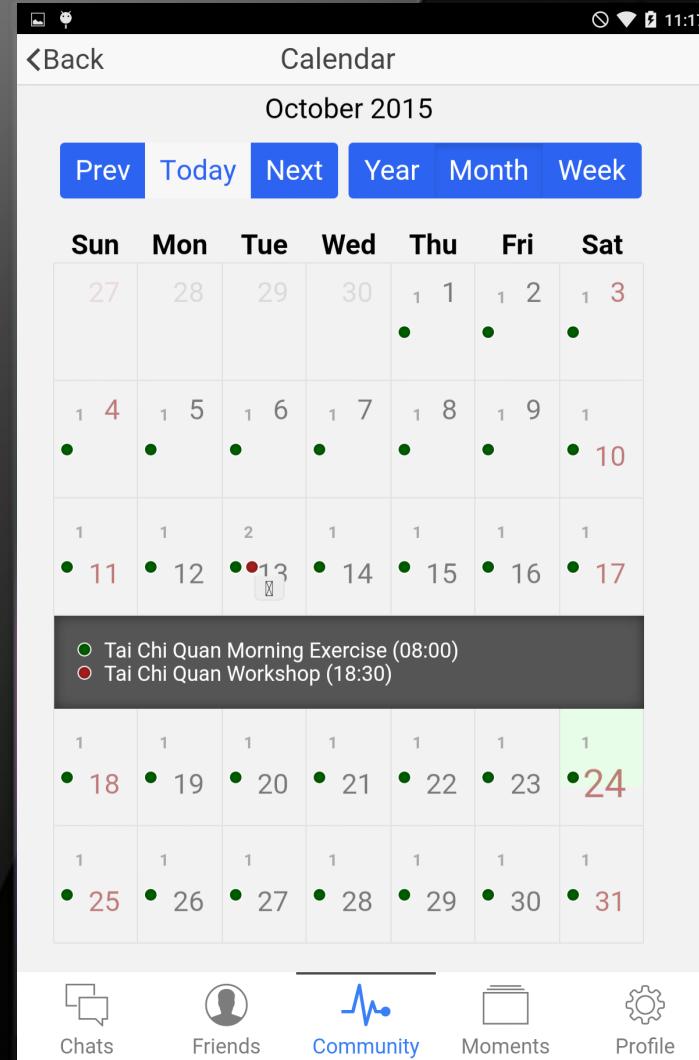
[Cancel](#)

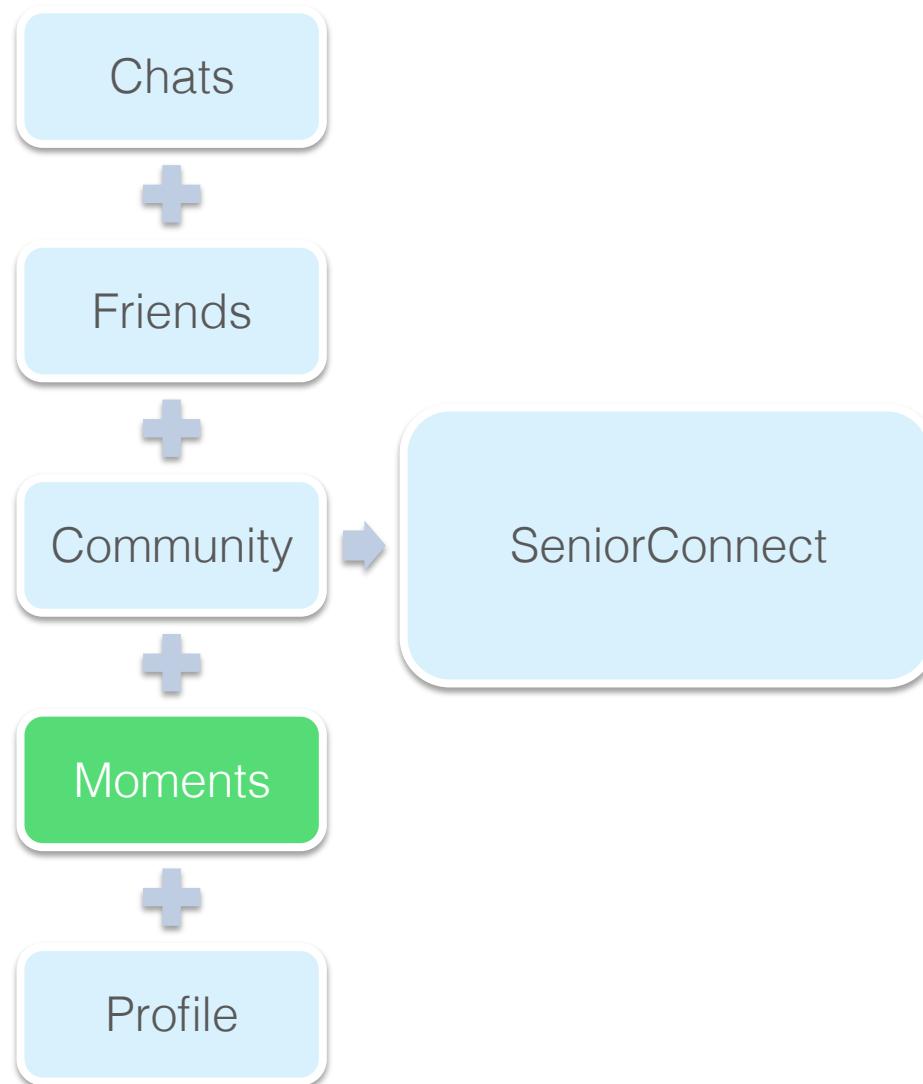
[Chats](#) [Friends](#) [Community](#) [Moments](#) [Profile](#)

Community List

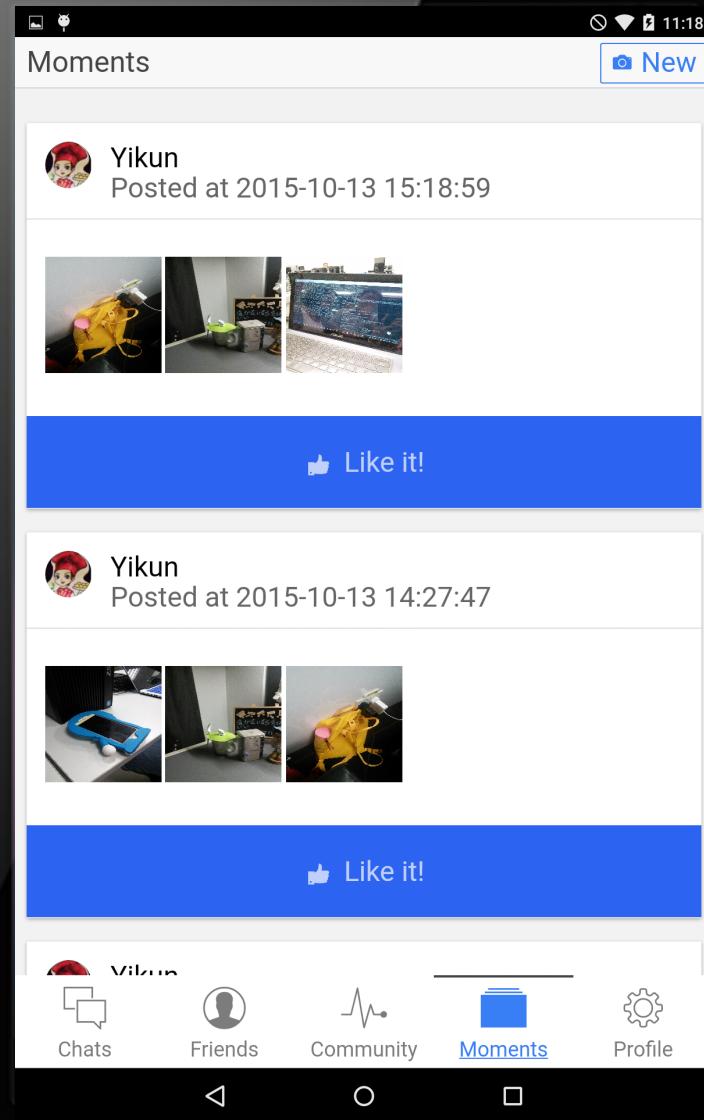


Calendar Detail

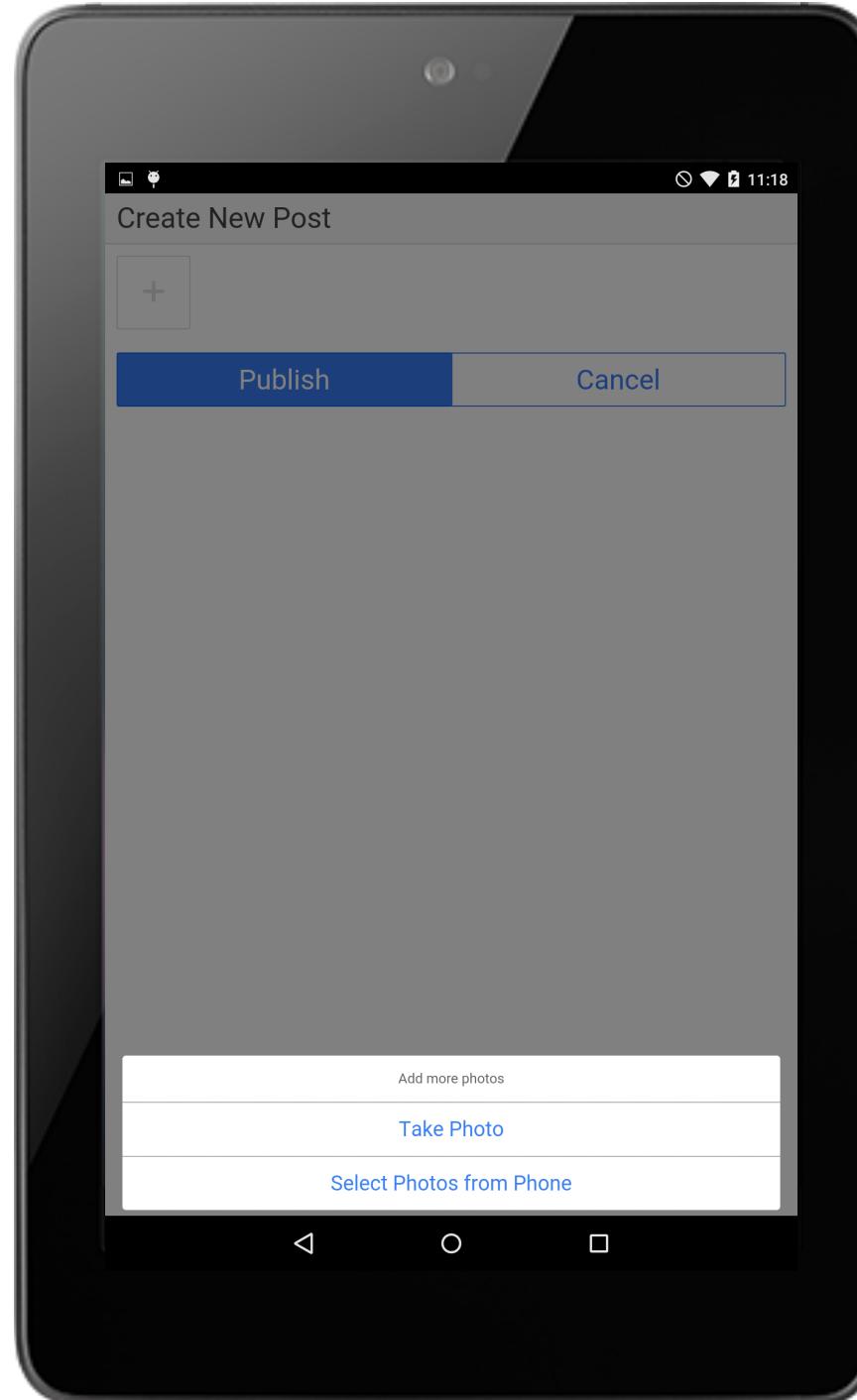


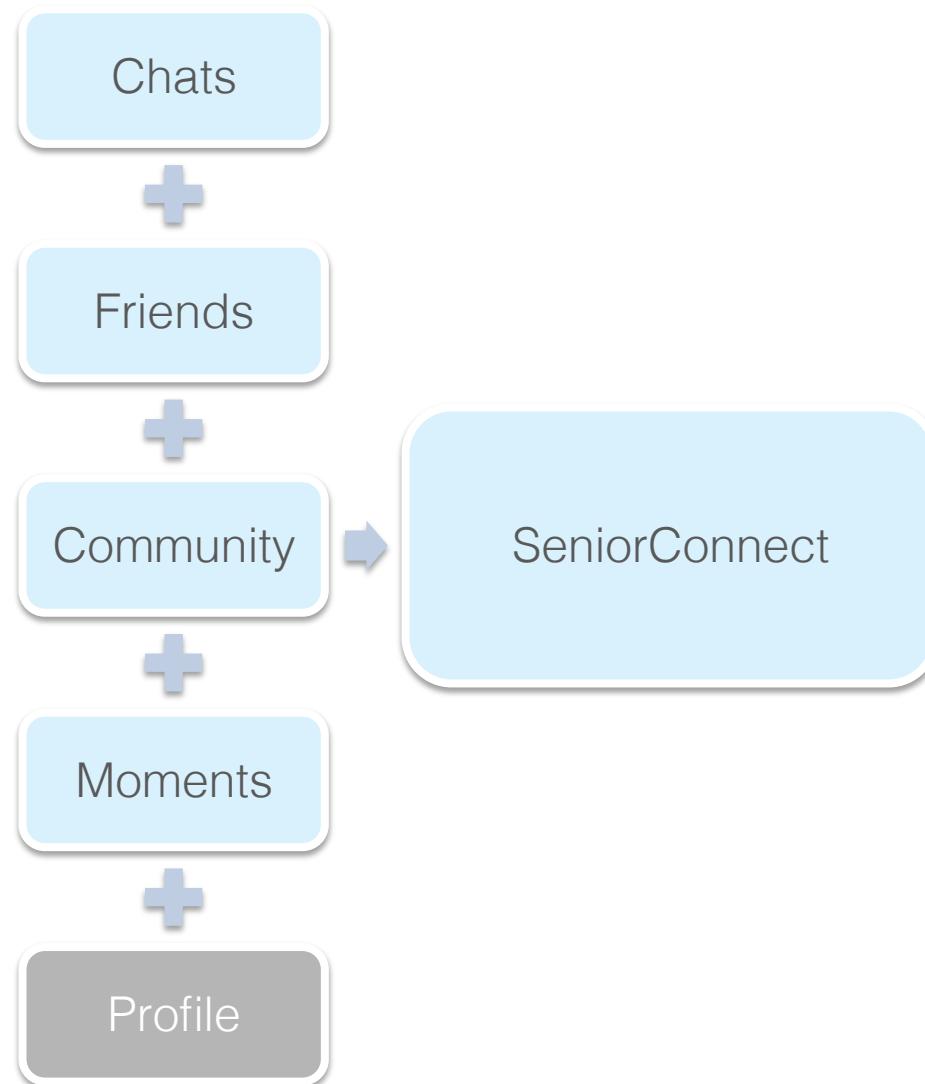


MemPost

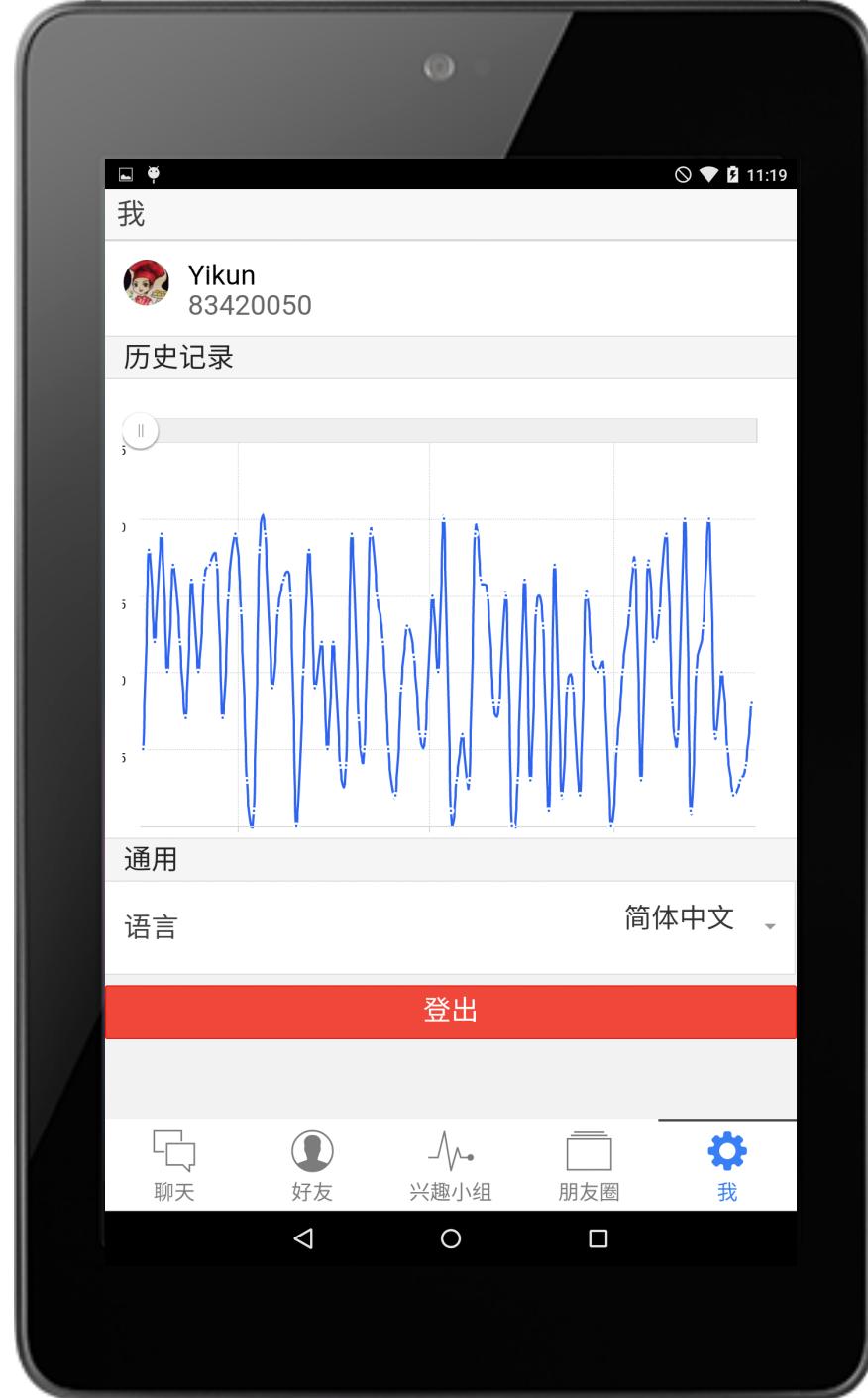


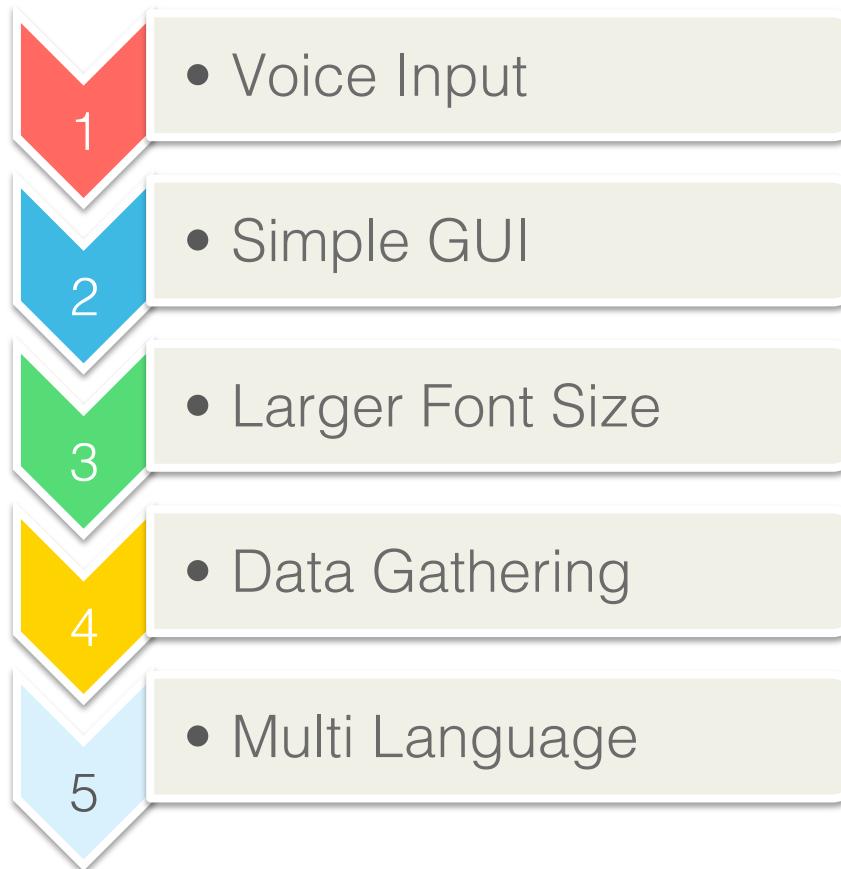
MemPost





Change Language

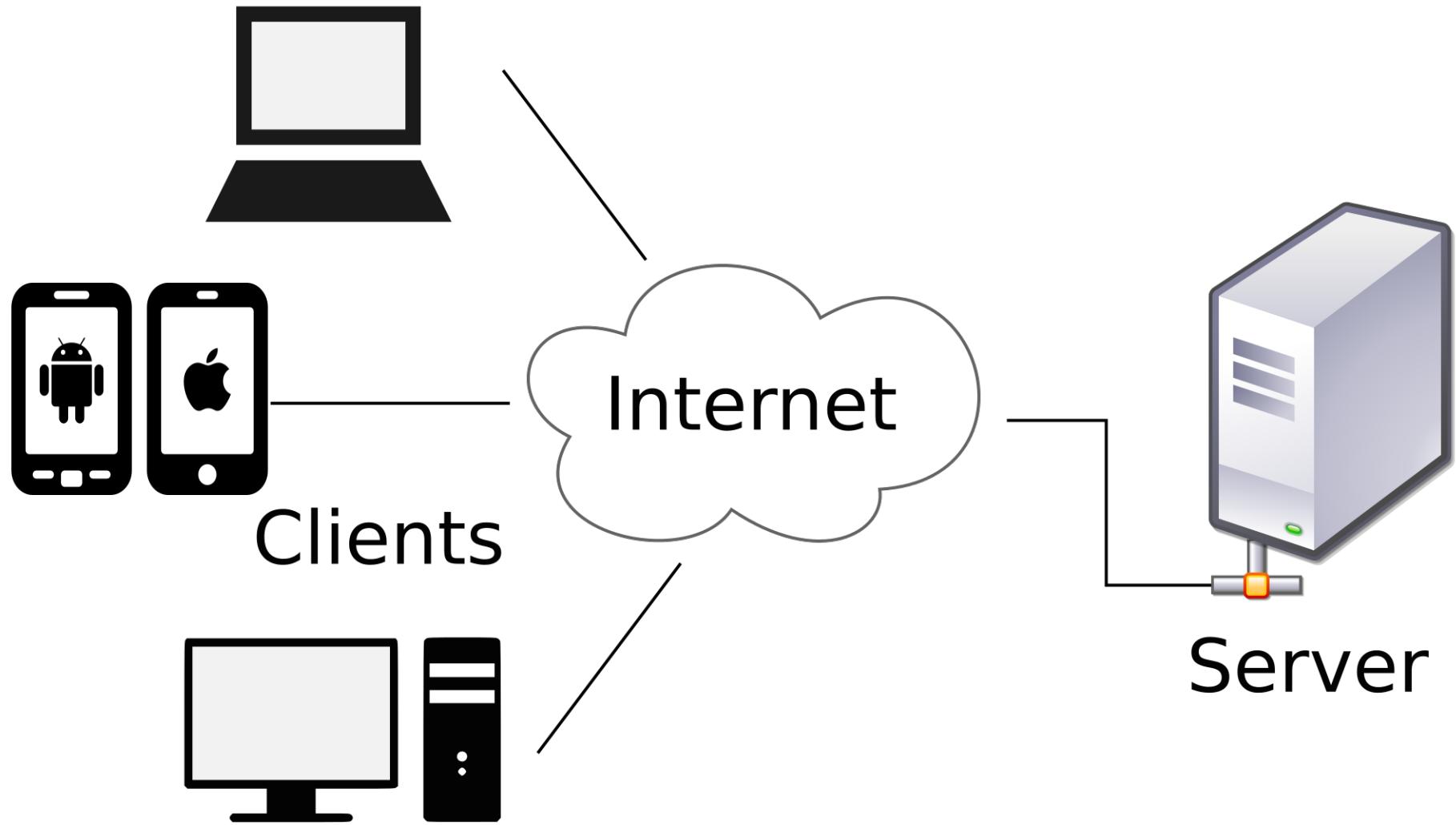


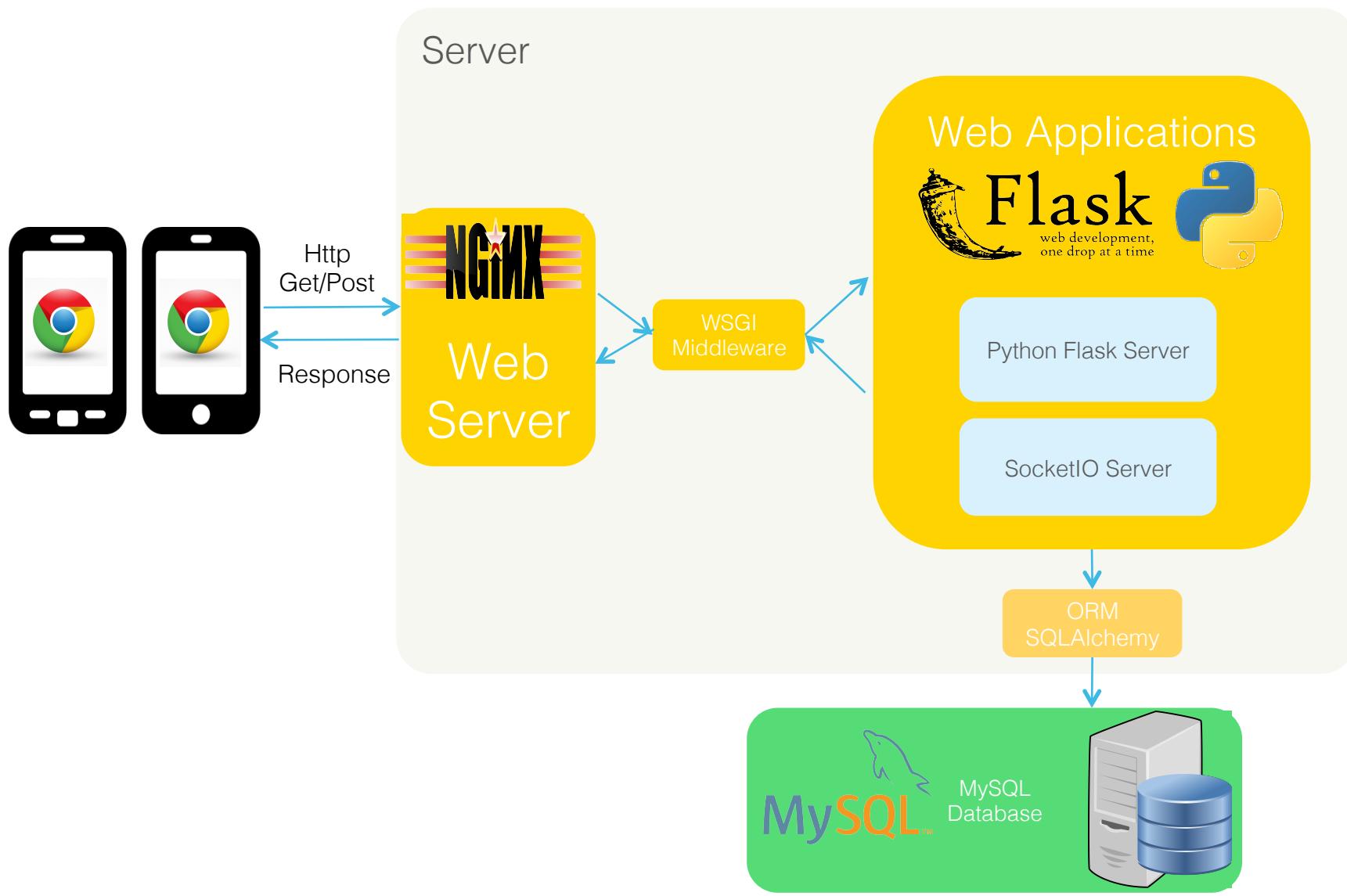
- 
- 1 • Voice Input
 - 2 • Simple GUI
 - 3 • Larger Font Size
 - 4 • Data Gathering
 - 5 • Multi Language



How We Do It Technical Design









Light, Simple Core



Extensible, Flexible

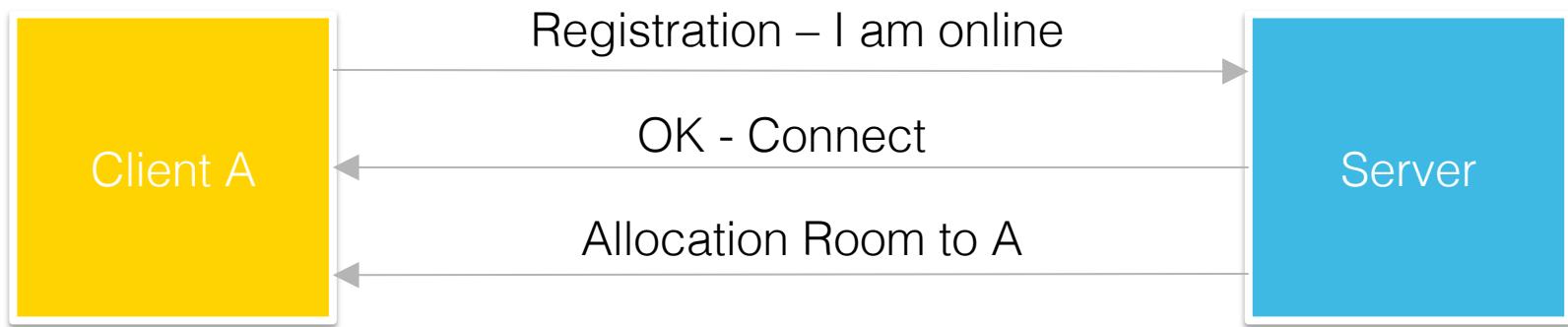


Easy Testing



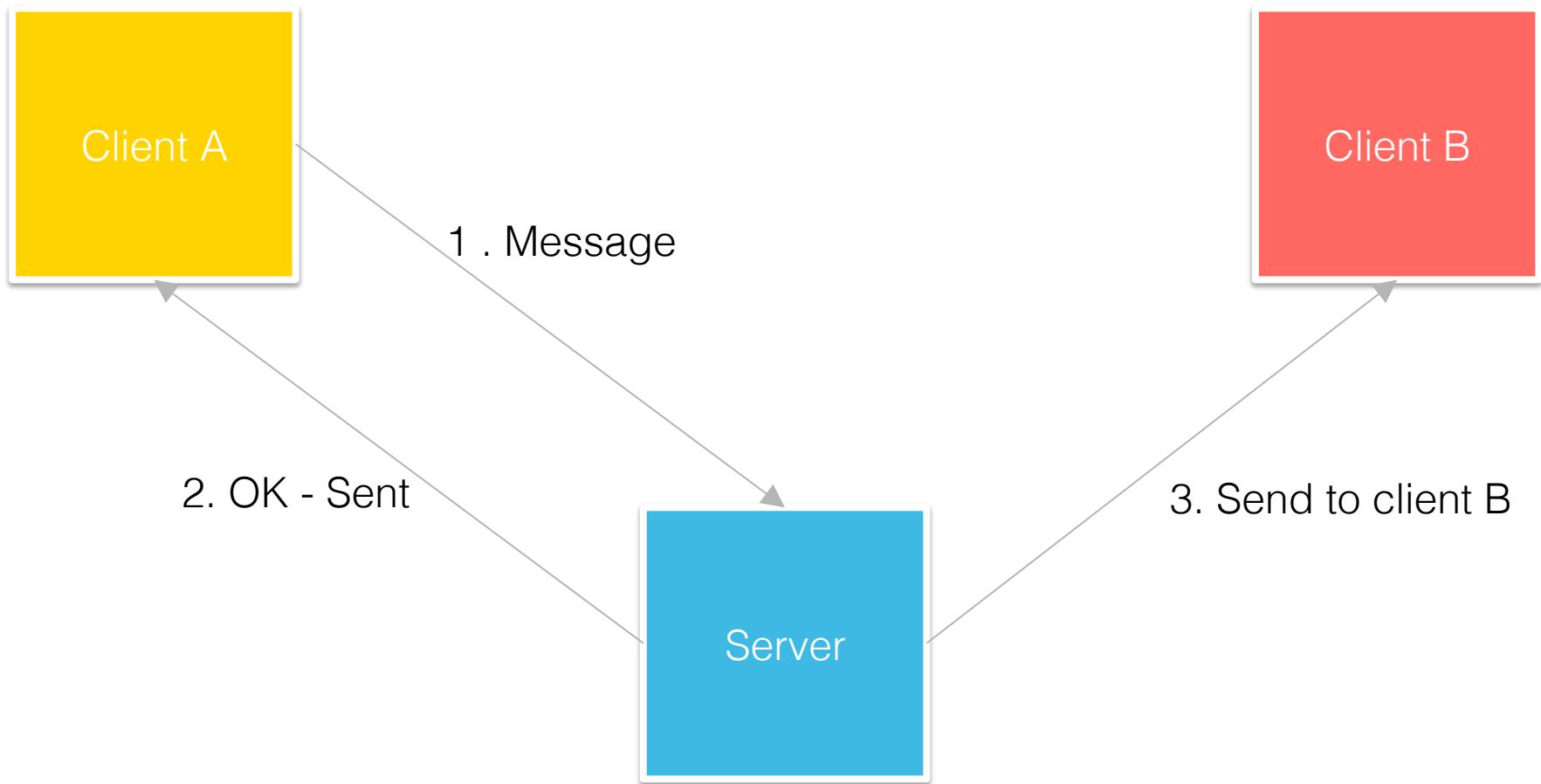
RESTful





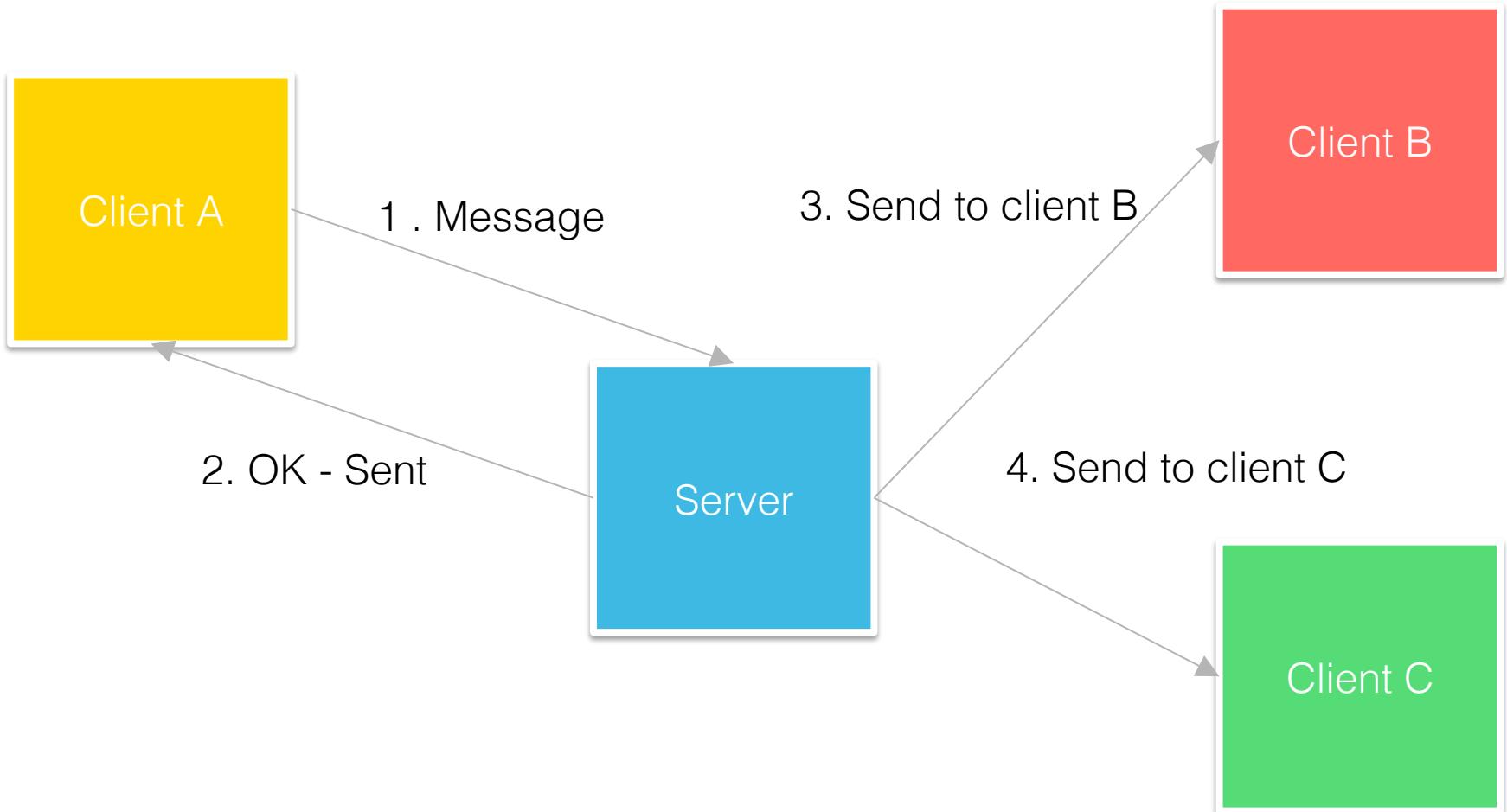


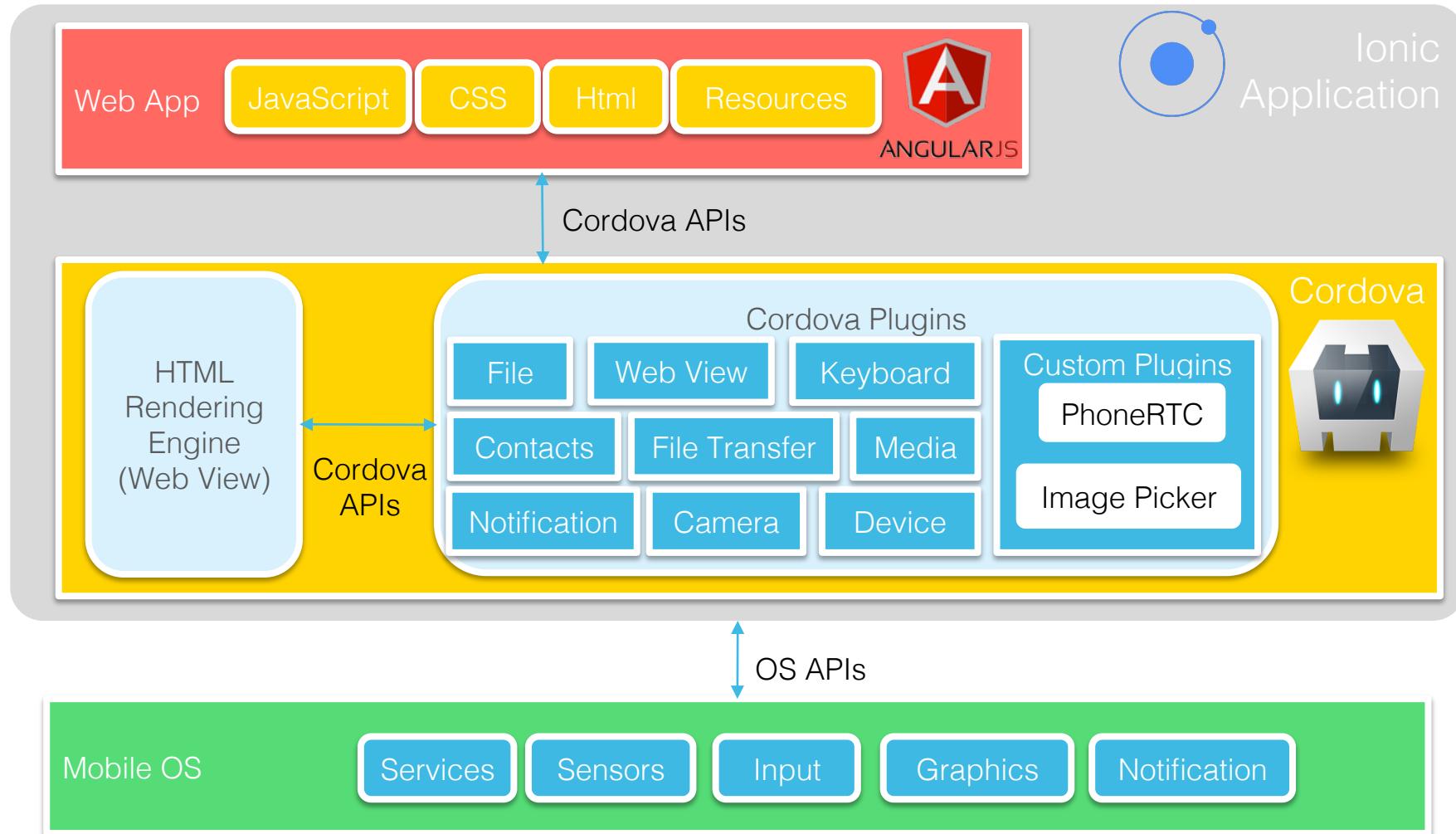
1 to 1 Chat

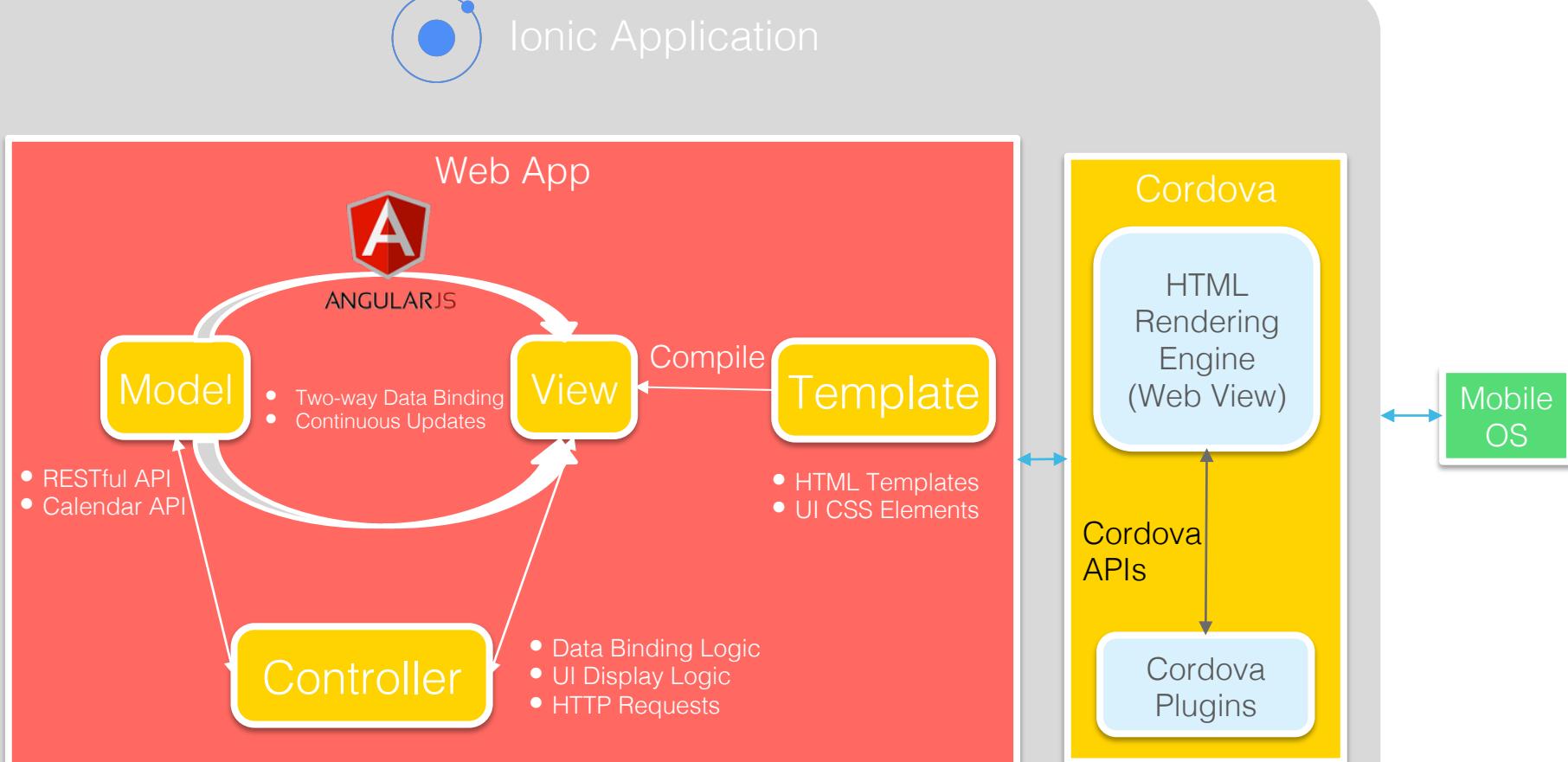




1 to Many Chat









Platform Independent



Quick Development



Cool Web Technologies



Direct Access to Native APIs





Apple iOS



Android



Blackberry



Windows

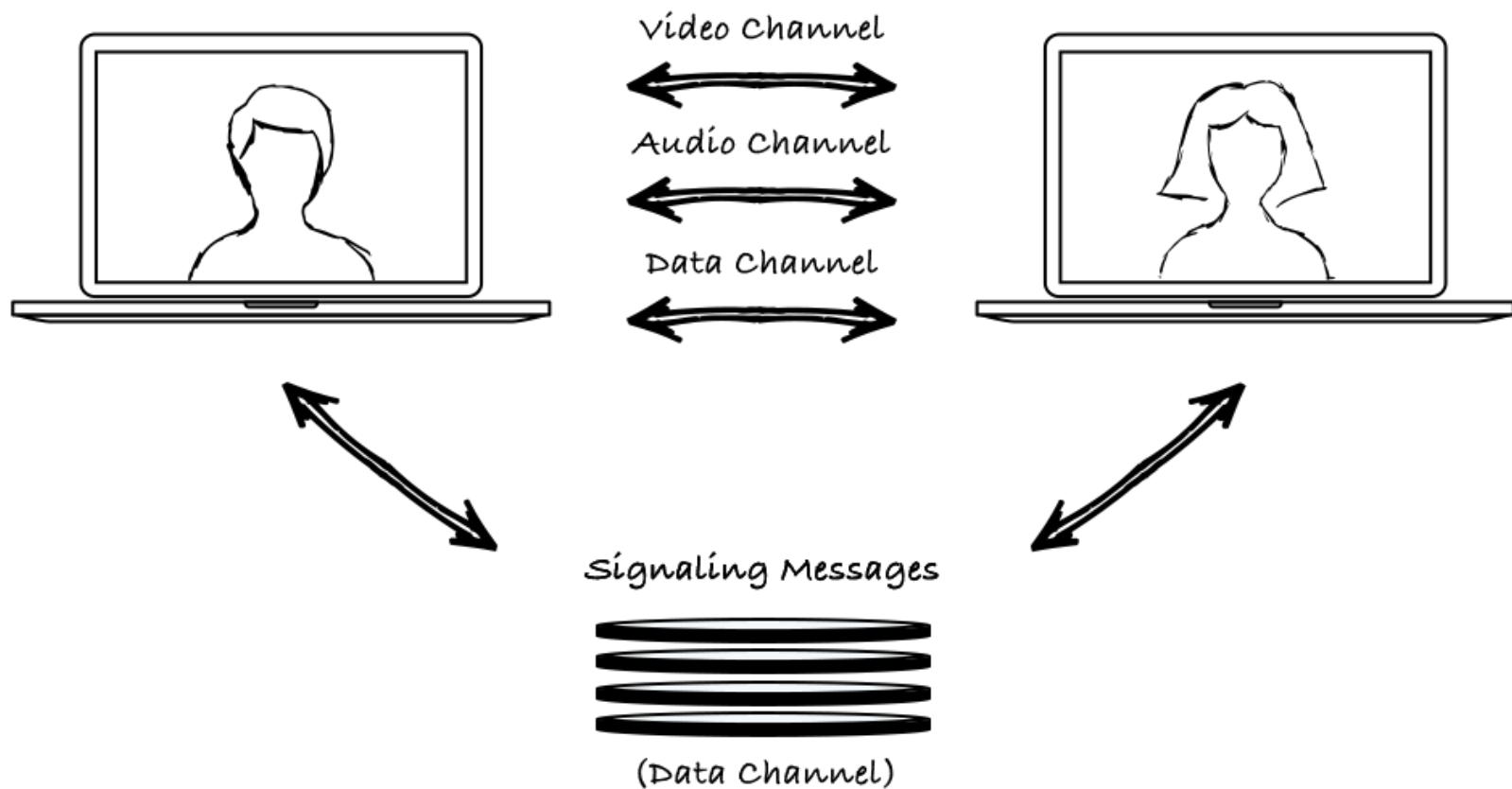


Smartphones



Tablets

Powered by PhoneRTC

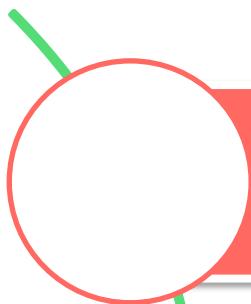




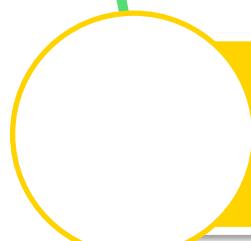
When Quality Is At Heart

Software Quality Assurance

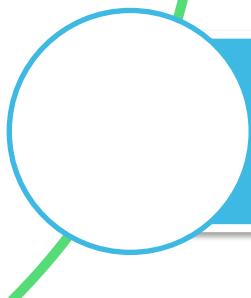




Ensures the required level of quality
is achieved in SeniorConnect Project



Sets out standards, practices and
conventions



Develops a ‘quality culture’

Quality metrics: ISO/IEC 9126



Software Quality Assurance Plan: IEEE Std. 730



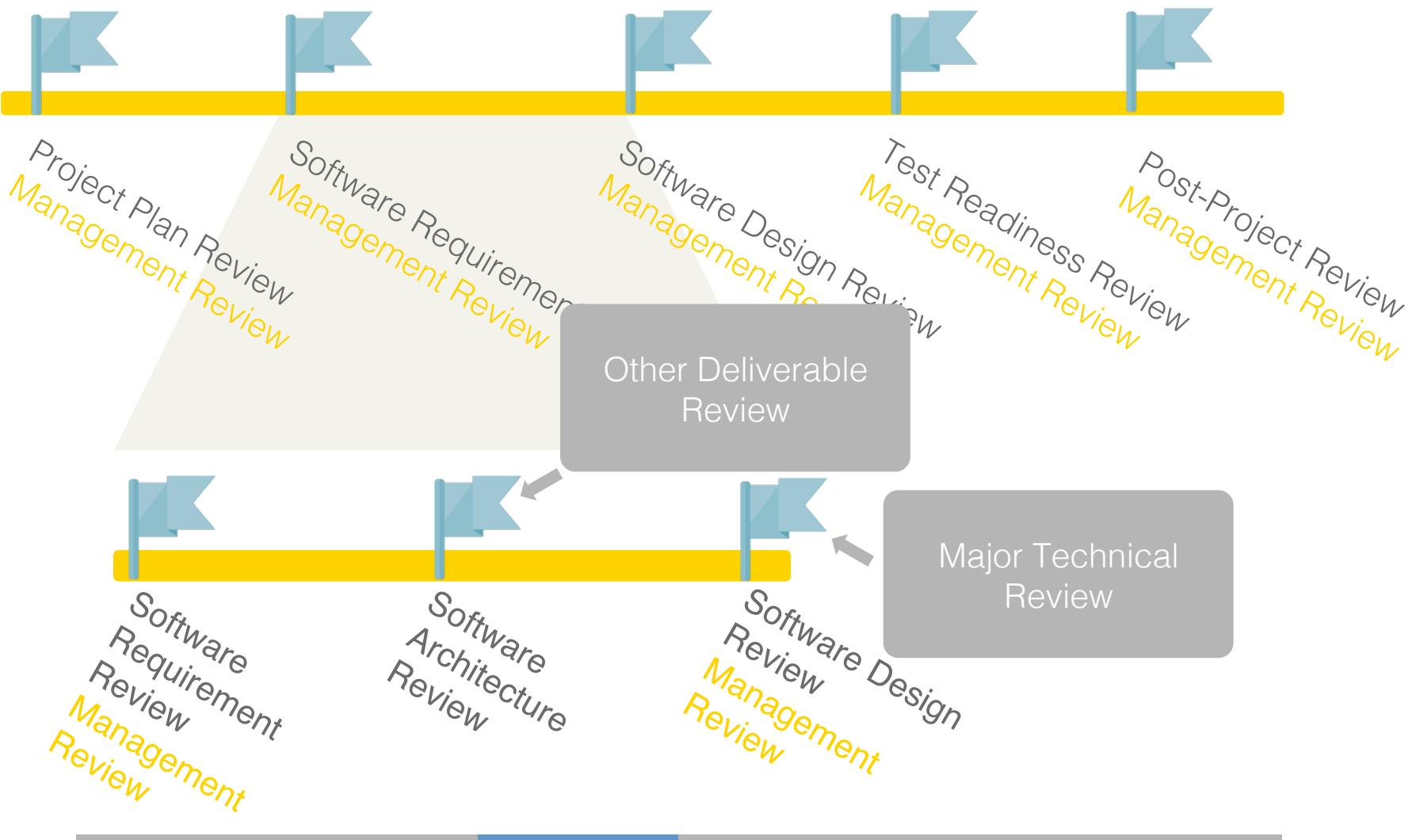




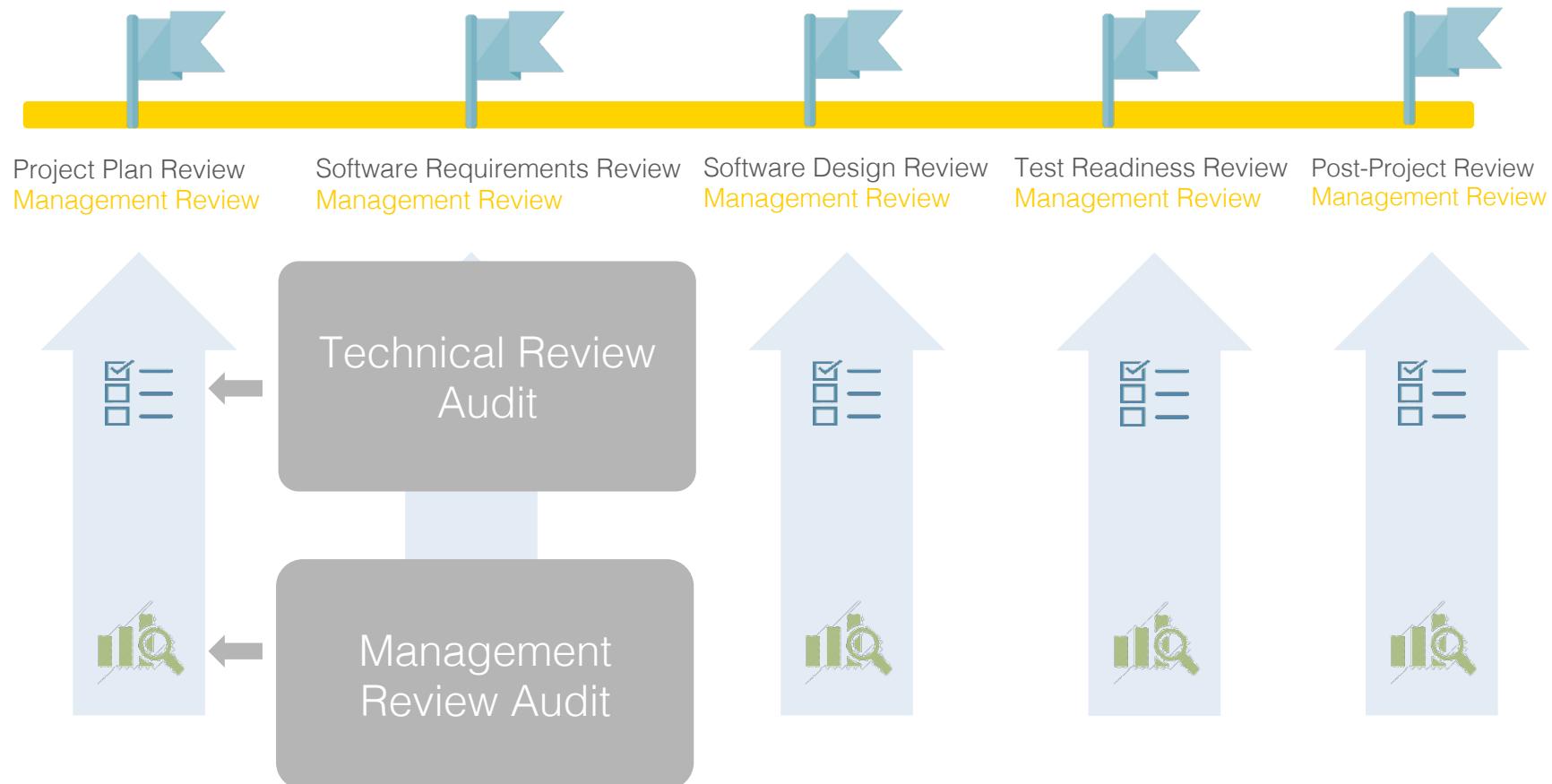
Level 1: Reviews



Level 1: Reviews



Level 2: Review Process Audits



Software Product

- Functionality

Schedule

- Major technical review: at each milestone of SDLC
- Minor technical review: at the completion of each sub module

Measurements

- Inspections
- Walk-throughs

Well-defined Process

- Review meeting minutes
- Review form
- Review checklist

Objectives

Roles &
Responsibilities

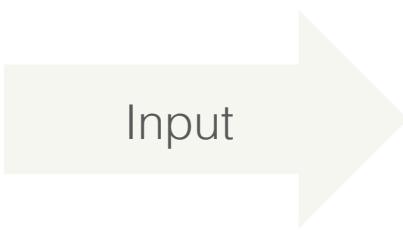
Input

Entry Criteria

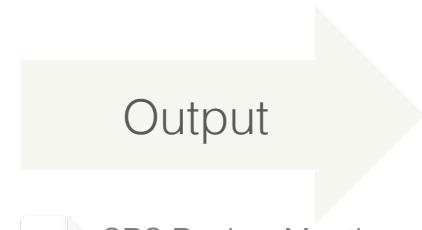
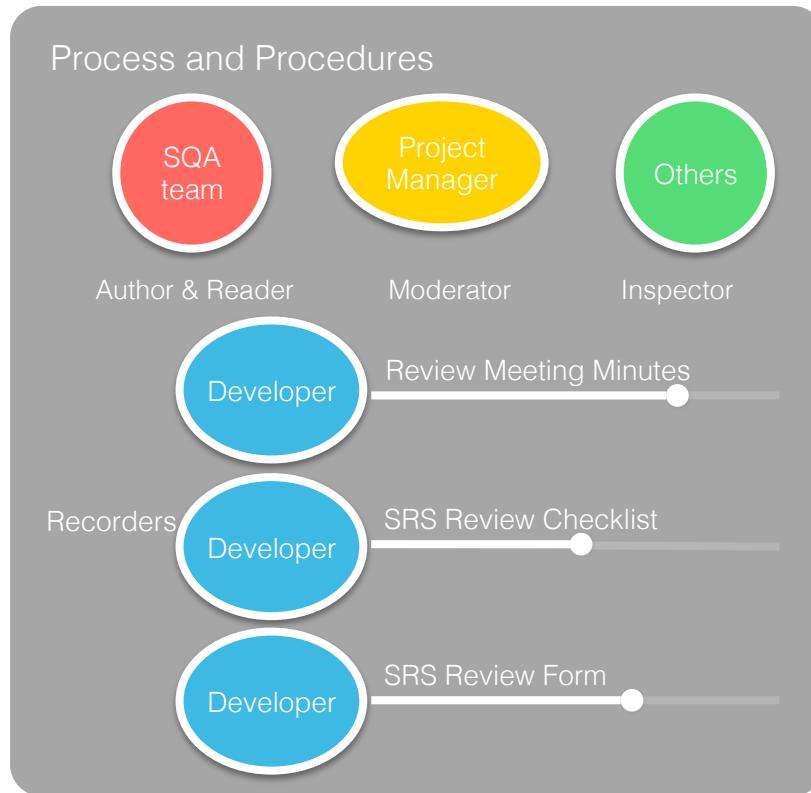
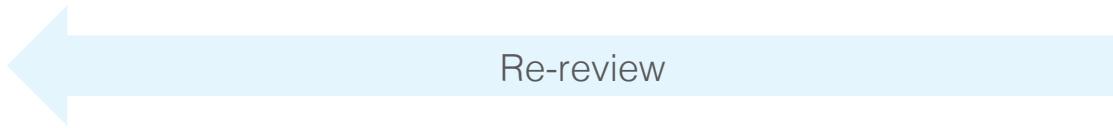
Procedures &
Measurements

Exit Criteria

Output

Input

Review Item
System Requirements
Specifications
Use Case Model

OutputSRS Review Meeting MinutesSRS Review ChecklistSRS Review FormRe-review

Ensure the SQA Process Followed

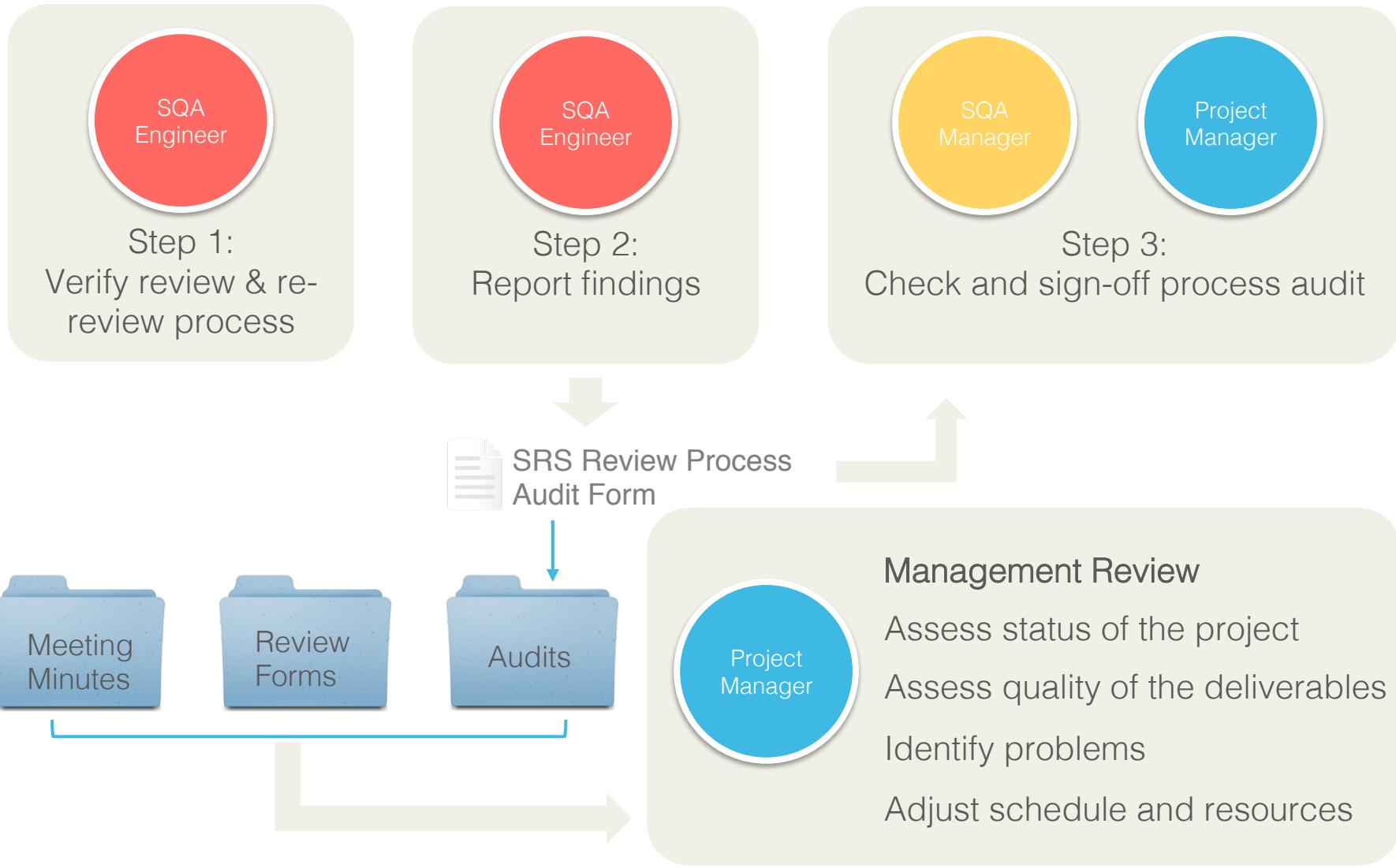
- Documentation
- Personnel
- Review and verification

Schedule

- After technical review

Well-defined Process

- Process audit form



Project Management Practices

- Project status/ progress
- Issues identified
- Risk analysis

Schedule

- Every 2 weeks

Well-defined process

- Review meeting minutes
- Management review form



How We Manage It

Project Management





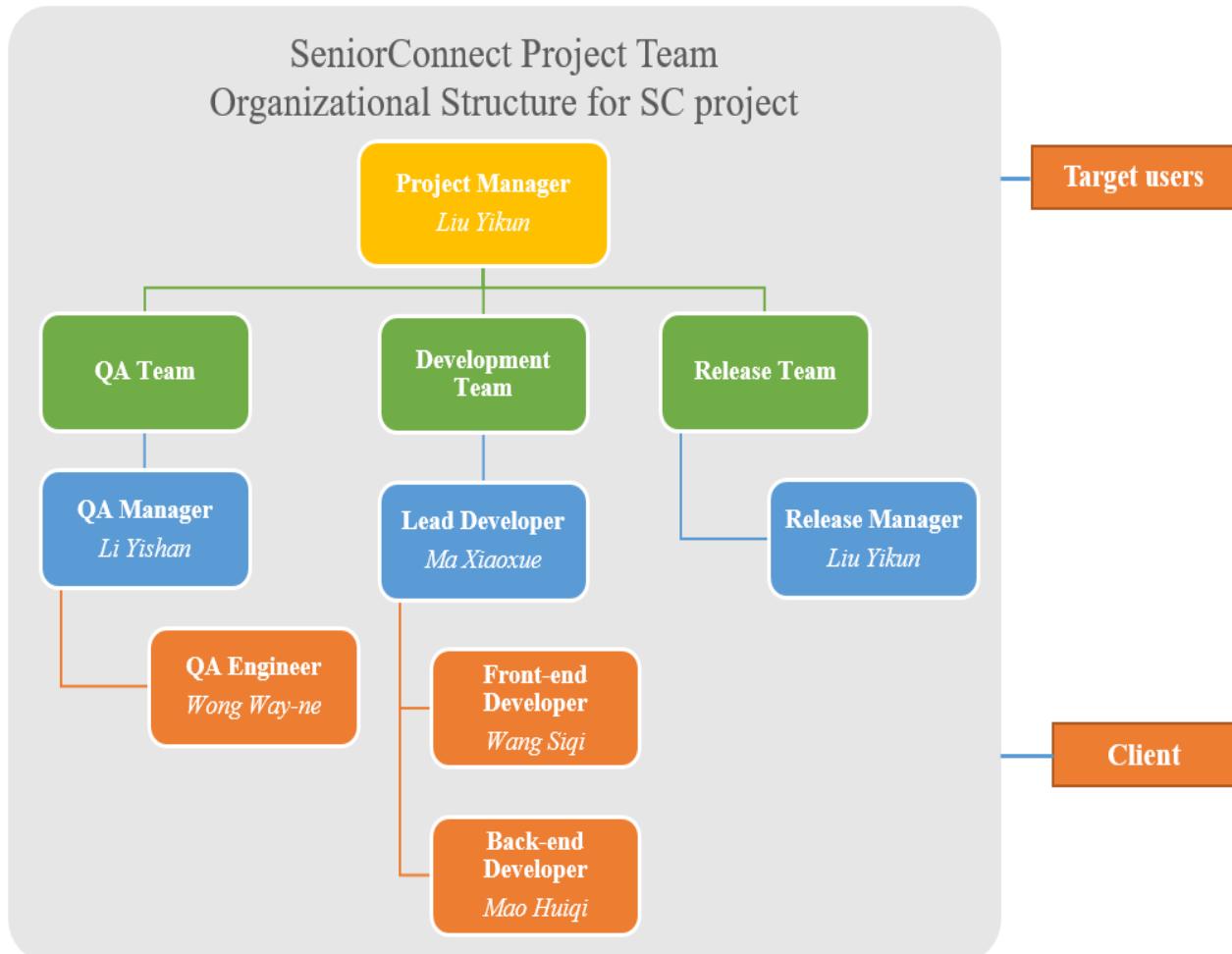
Project Organization >

Project Estimation >

Lifecycle: Agile >

Work breakdown >

Schedule >





Code size estimation Functional Points(FP)

- Registration
- Login/logout
- Send voice messages
- Listen to voice messages
- Make voice calls
- Make video calls
- Create a group chat
- Add friends to a group chat
- Quit a group chat
- Share photos in moments
- View moments
- Like moments
- Unlike moments
- View community list
- Join new community
- Quit a community
- Receive community event notification
- View community event list
- Join an event
- Drop an event
- View joined event
- View list of friends
- Send a friend request
- Accept a friend request
- Decline a friend request
- View personal profile

Unadjusted FPs

Characteristics	Low Complexity		Med. Complexity		High Complexity	
Inputs	24	x3	1	x4	0	x6
Outputs	5	x4	0	x5	0	x7
Inquiries	7	x3	1	x4	0	x6
Logical Files	9	x7	0	x10	0	x15
Interfaces	0	x5	2	x7	0	x10
Unadjusted FP	176		22		0	
Total = L + M + H	198					

Influence Multiplier

$$= \text{Total score} \times 0.01 + 0.65$$

$$= 46 \times 0.01 + 0.65$$

$$= 1.11$$

Adjusted FP

= Unadjusted FP x Influence
Multiplier

$$= 198 \times 1.11$$

$$= 220$$

7	8	9	×
4	5	6	-
1	2	3	+
0	.		=



LOC=220FP x 34 LOC/FP
=7480 LOC



COCOMO 81: Intermediate Model

Small	$a = 3.2$
Good	$b = 1.05$
Less than rigid	$c = 2.5$
Organic	$d = 0.38$

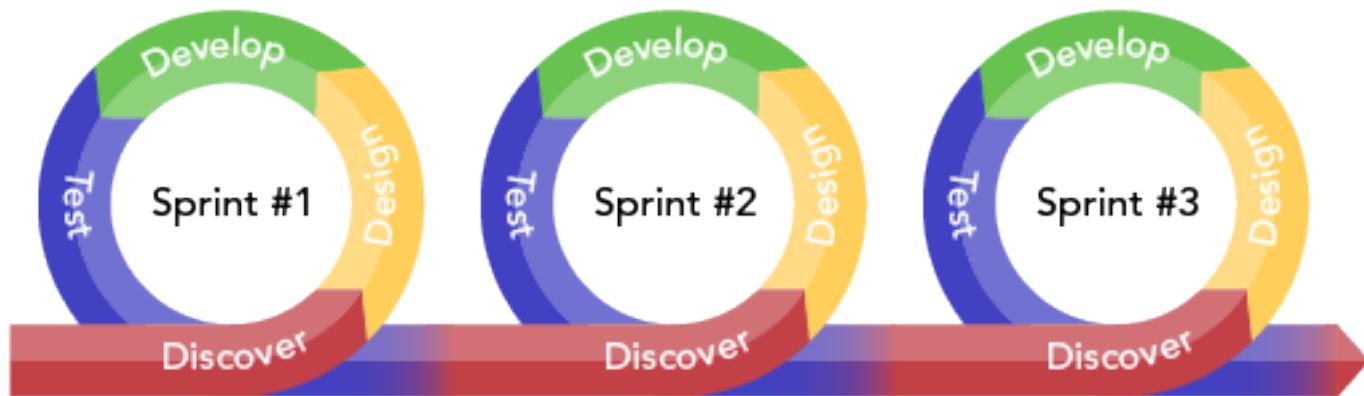
Cost Drivers
Product Attributes
Hardware Attributes
Personnel Attributes
Project Attributes

$$\text{Effort} = a \times (KDSI) \uparrow b \times EAF = 3.2 \times 7.48 \uparrow 1.05 \times 1.12 = 29.65 \text{ PM}$$

$$\text{Duration} = c \times \text{Effort} \uparrow d = 2.5 \times 29.65 \uparrow 0.38 = 9.06 \text{ M}$$

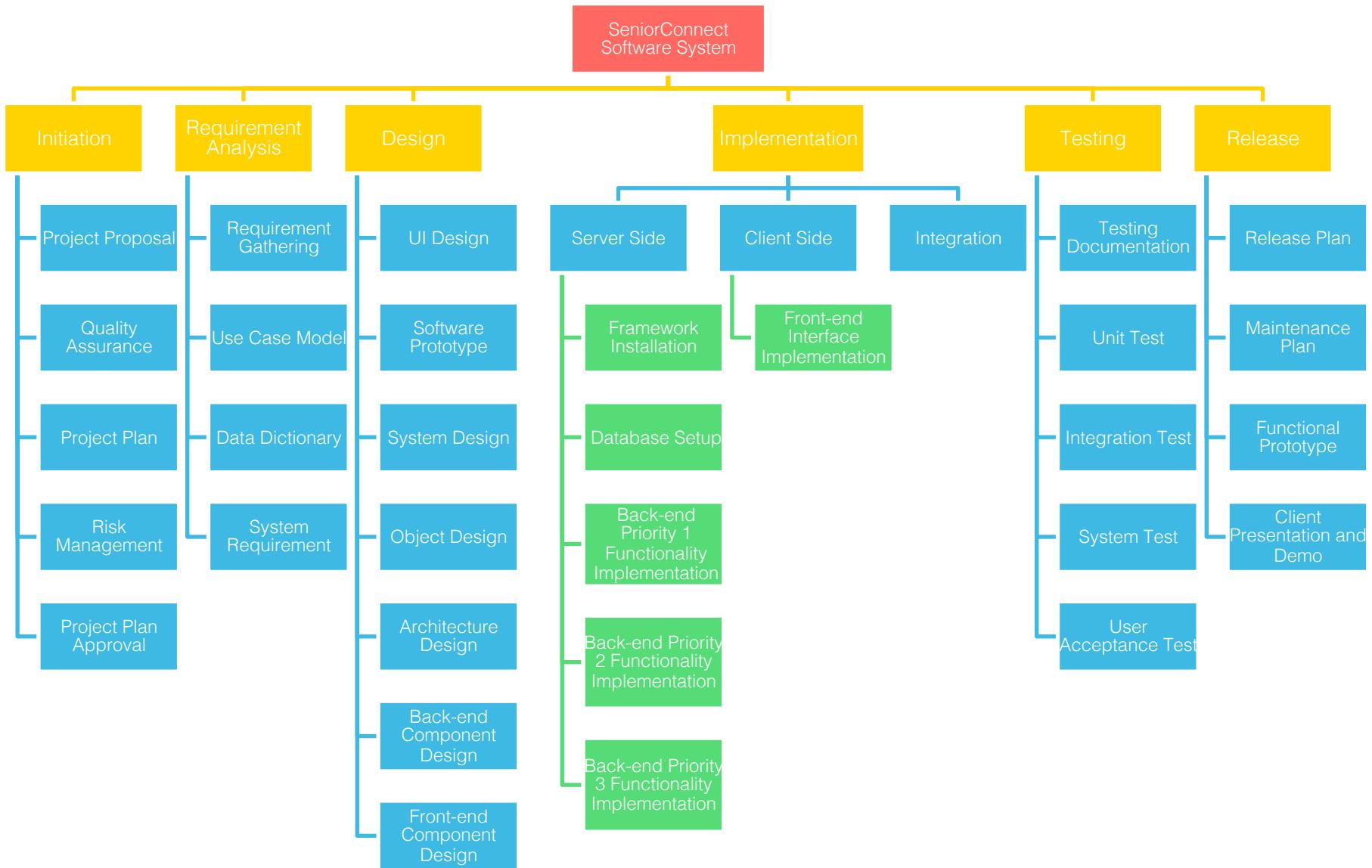
$$\text{Team Size} = \text{Effort} / \text{Duration} = 29.65 \text{ PM} / 9.06 \text{ PM} = 4 \text{ People}$$

Agile



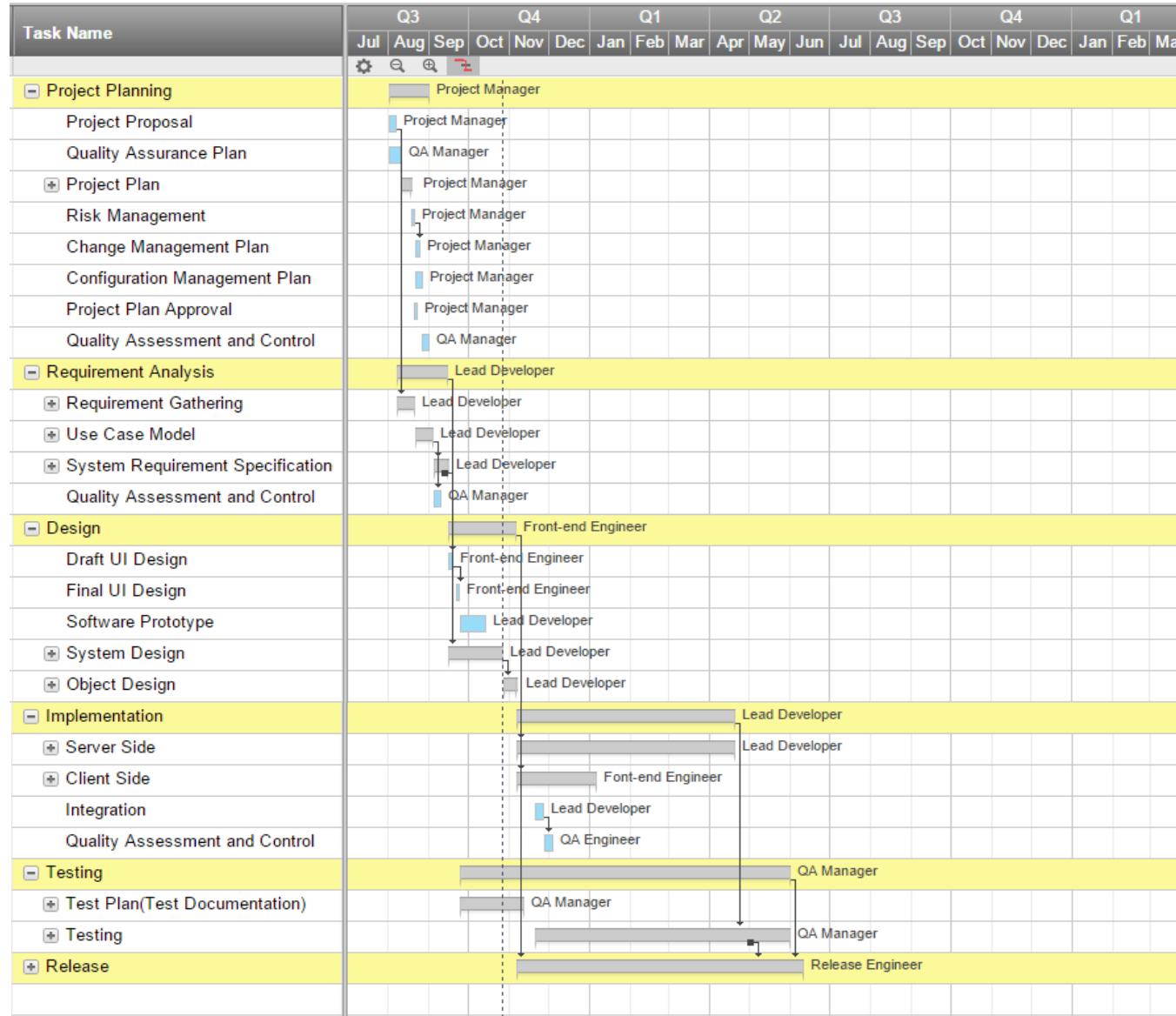
Agile Method

©2013 think interactive inc.

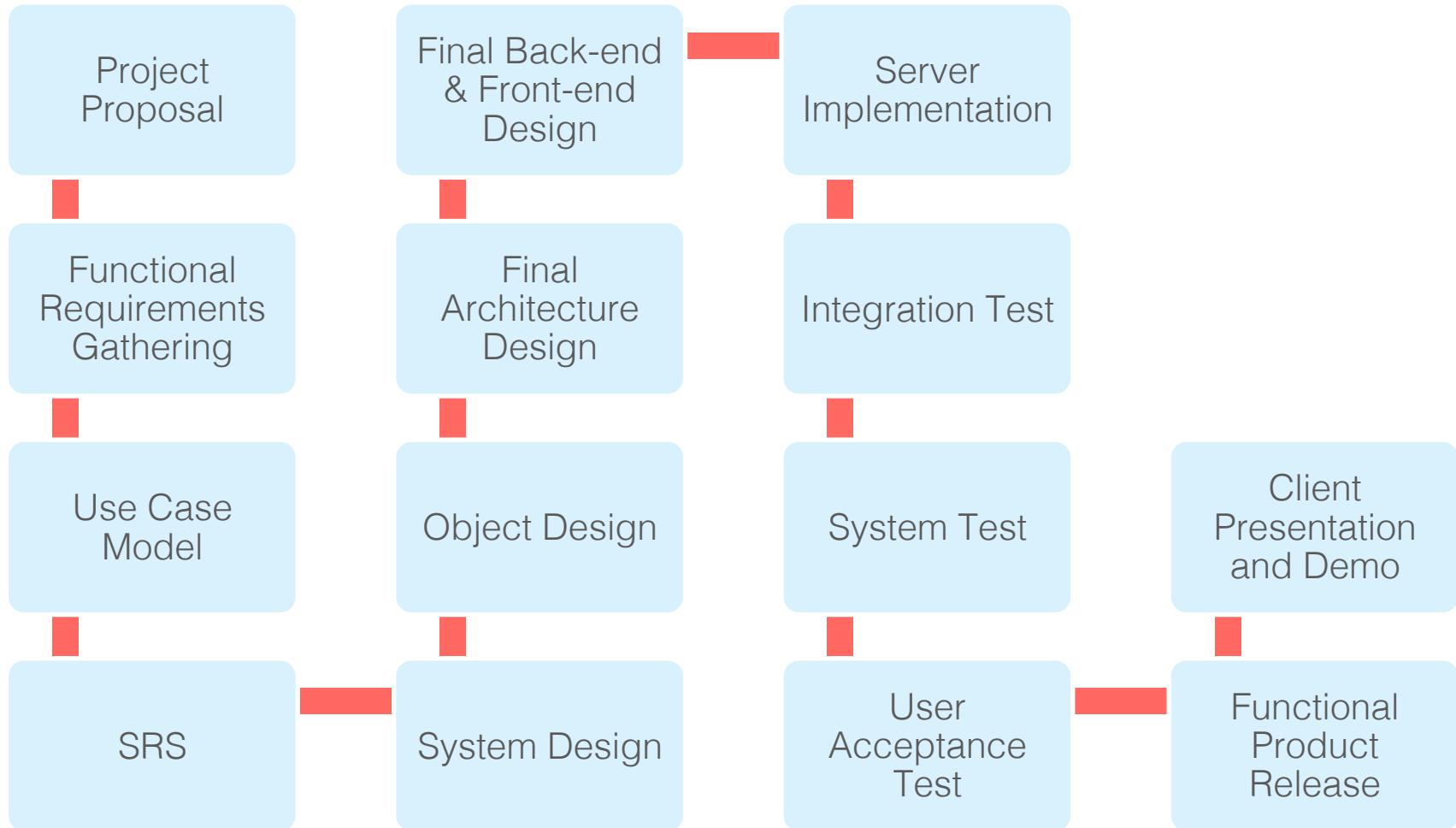




	i	Task Name	Duration	Start Date	End Date	Q3		Q4		Q1		Q2		Q3		
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		Project Planning	22d	08/01/15	08/31/15							Project Manager				
		Requirement Analysis	27d	08/07/15	09/14/15							Lead Developer				
		Design	48d	09/15/15	11/19/15							Front-end Engineer				
		Implementation	108d	11/20/15	04/19/16							Lead Developer				
		Testing	179d	09/24/15	05/31/16							QA Manager				
		Release	146d	11/20/15	06/10/16							Release Engineer				



Critical Path



Release	New Functions	Release Date
V1.0	Registration, login, logout Chat Friend Profile	Dec 15 2015
V1.1	Moments Community and Events	Feb 15 2016
V1.2	Like Community and Events (enhanced) View Own Photos	Mar 15 2016
V1.3	Events (enhanced) Group Chat	Apr 15 2016
V1.4	Call	May 15 2016
V1.5	\	Jun 15 2016



How We Handle Changes

Change & Configuration

Management

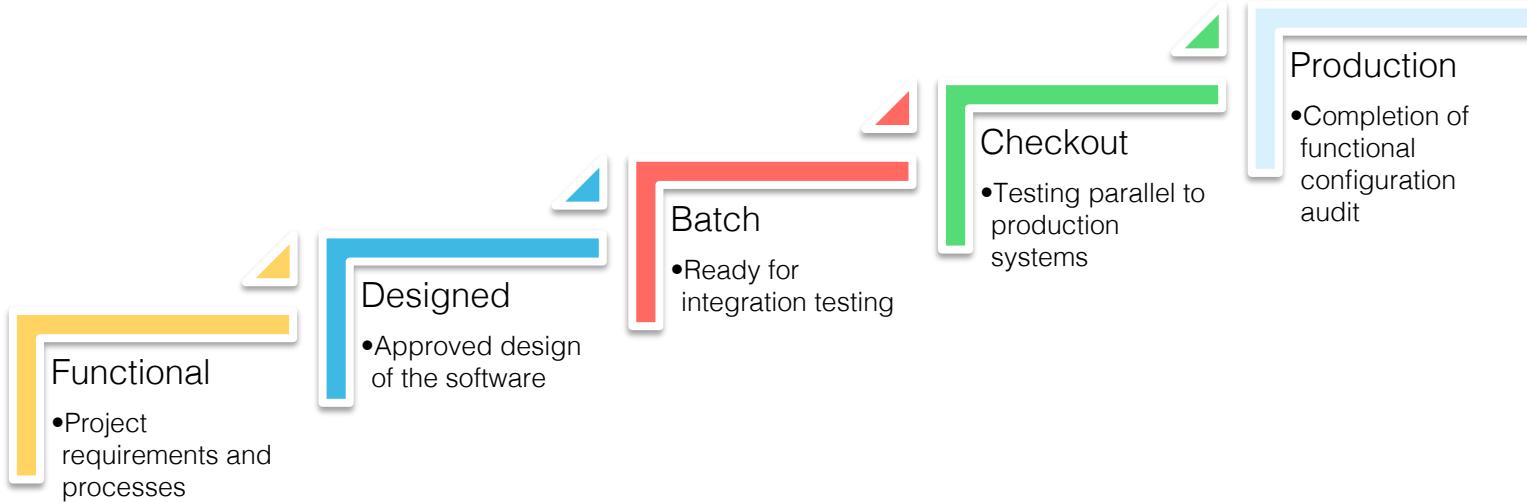




Naming Convention >

Baseline Management >

Configuration Status Auditing >



Sample - Configuration Items		Identification Scheme				
Project Proposal Review		PP_PPR_FUN.7				
Baseline	Version Label Contents					Revision Number
Functional	CI	Code	‘PP’	Sub	Code	‘FUN’
Design			–			‘DES’
Batch			‘,’			‘BAT’
Checkout			–			‘CHE’
Production			–			‘PRO’
Not Baseline						Date Stamp
	PP	–	PPR	–	FUN	.7

Status Accounting

- Person
- Date of the change
- Reason
- The corresponding CR
- Detailed changes made to the CI.
- Source code: for each change, provided the affected components/subsystems in the changes made to CI.
- Documents: for each change, update the change history in the document for easy reference

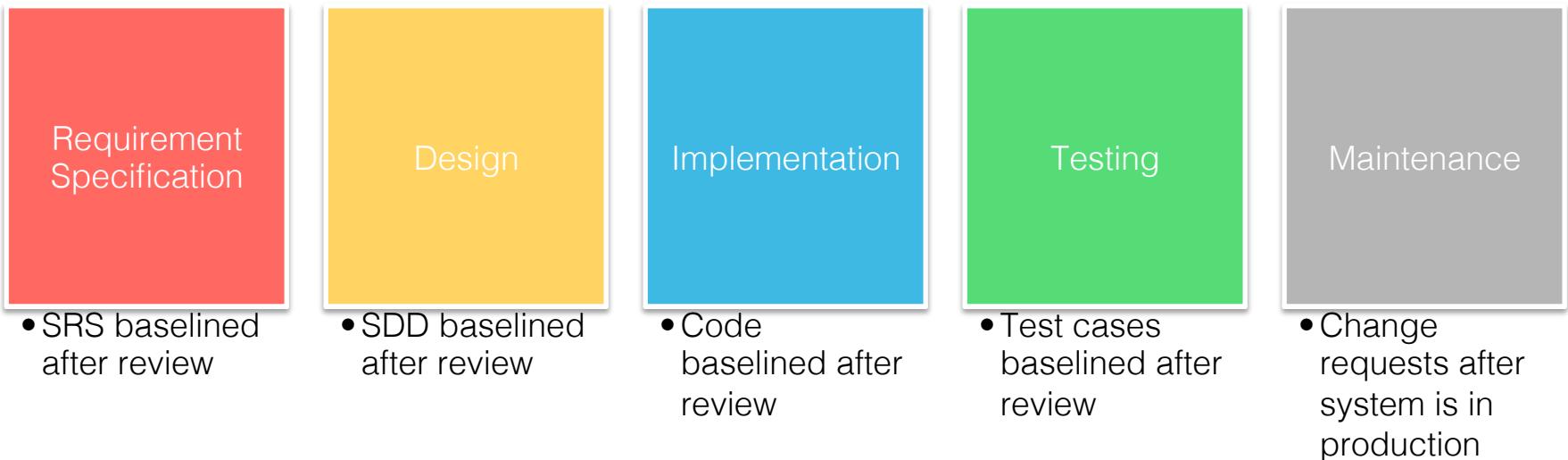


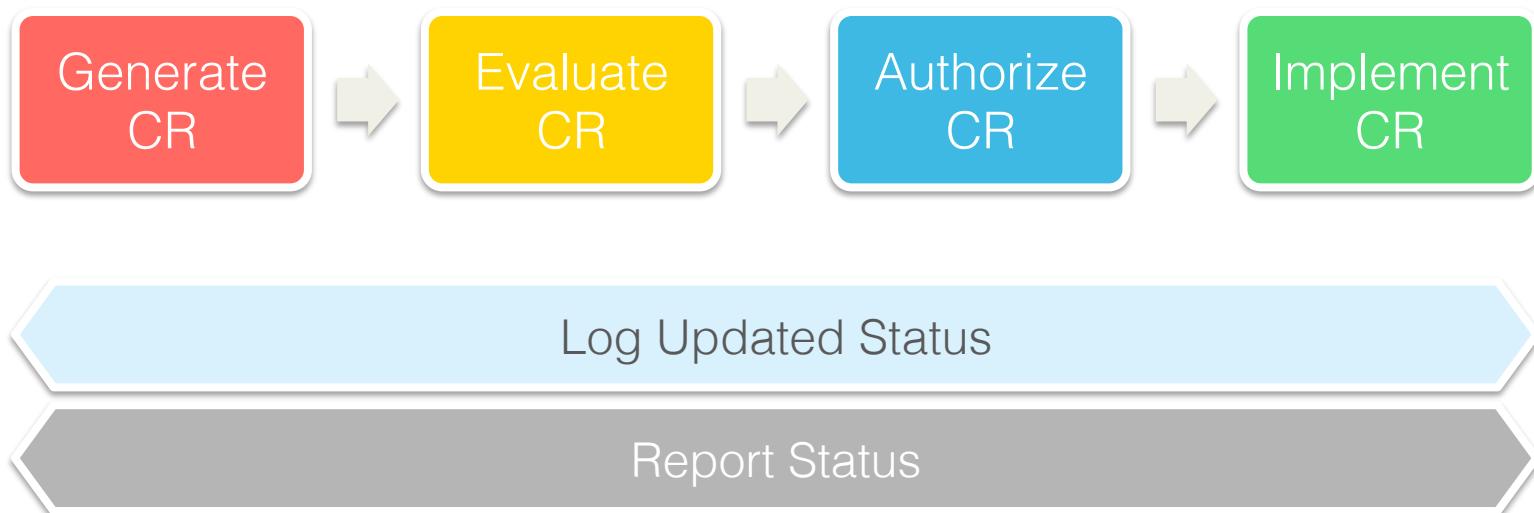
Change Control Boards >

Timeline >

Change Request Process Flow >

- Project Level CCB
 - Develop Team
 - SQA Team
 - SCE representatives (customer)
 - User representatives
- Software Change Control Board
 - SCE representatives (sponsor)
 - Project Manager





SUBMITTER - GENERAL INFORMATION

CR#			
Submitter Name			
Brief Description of Request			
Date Submitted			
Date Required			
Priority	Low	Medium	High
Reason for Change			
Other Artifacts Impacted			
Assumptions and Notes			
Attachments or References	Yes	No	
	Link:		

INITIAL ANALYSIS

Hour Impact		
Duration Impact		
Schedule Impact		
Comments		
Recommendations		

CHANGE CONTROL BOARD - DECISION

Decision	Approved	Approved w/Conditions	Rejected	More Info
Decision Date				
Decision Explanation				
Conditions				



How We Handle Risk

Risk Management





Purpose & Scope



Organization

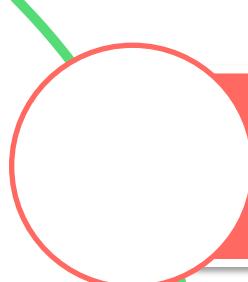


Risk Management Approach

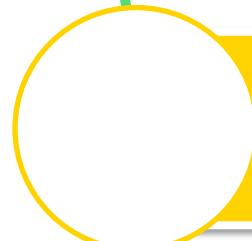


Risk Log

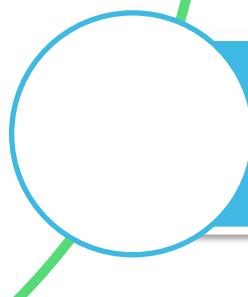




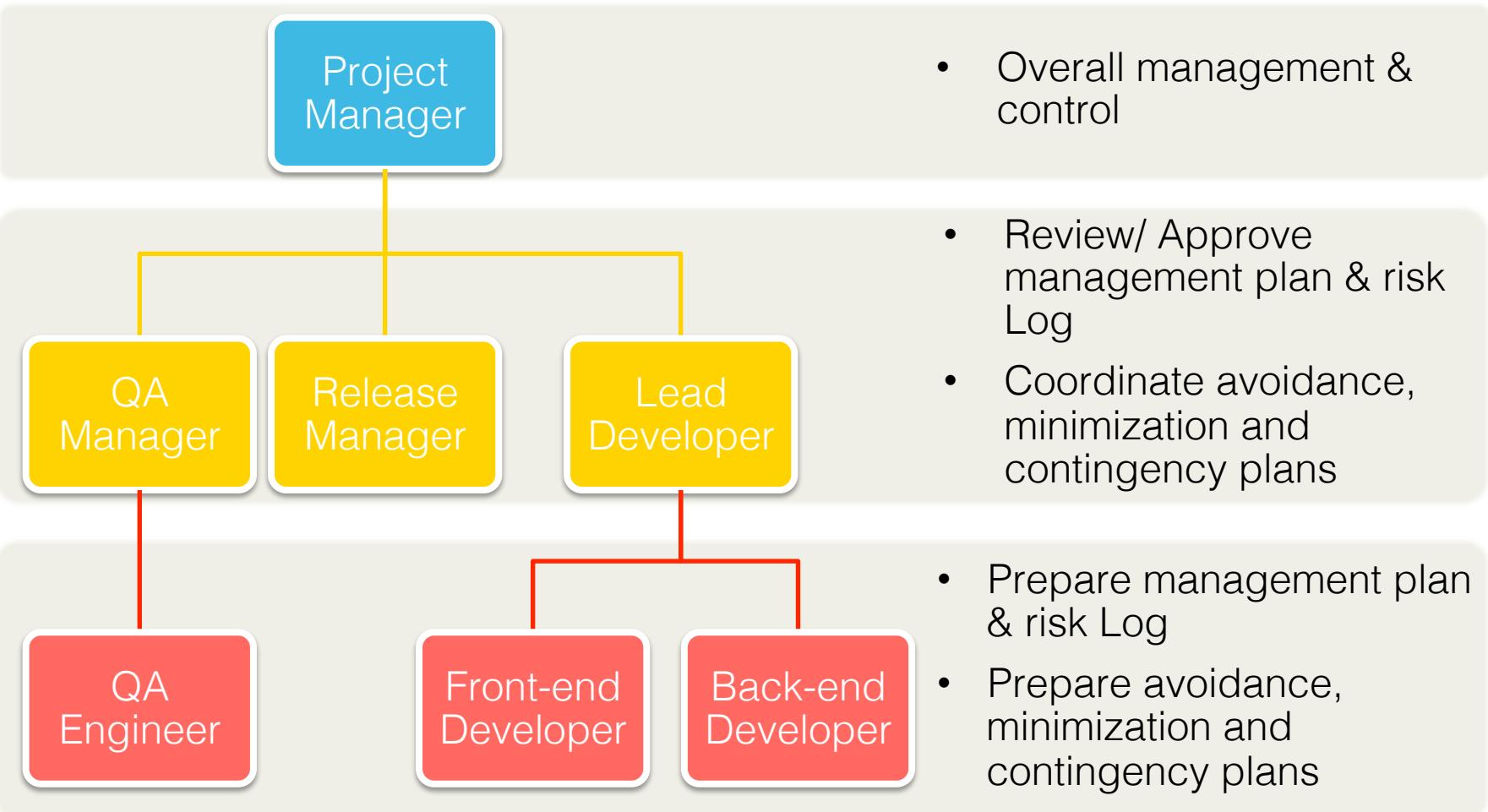
Set standards for identifying risks and preparing plans to minimize their impacts



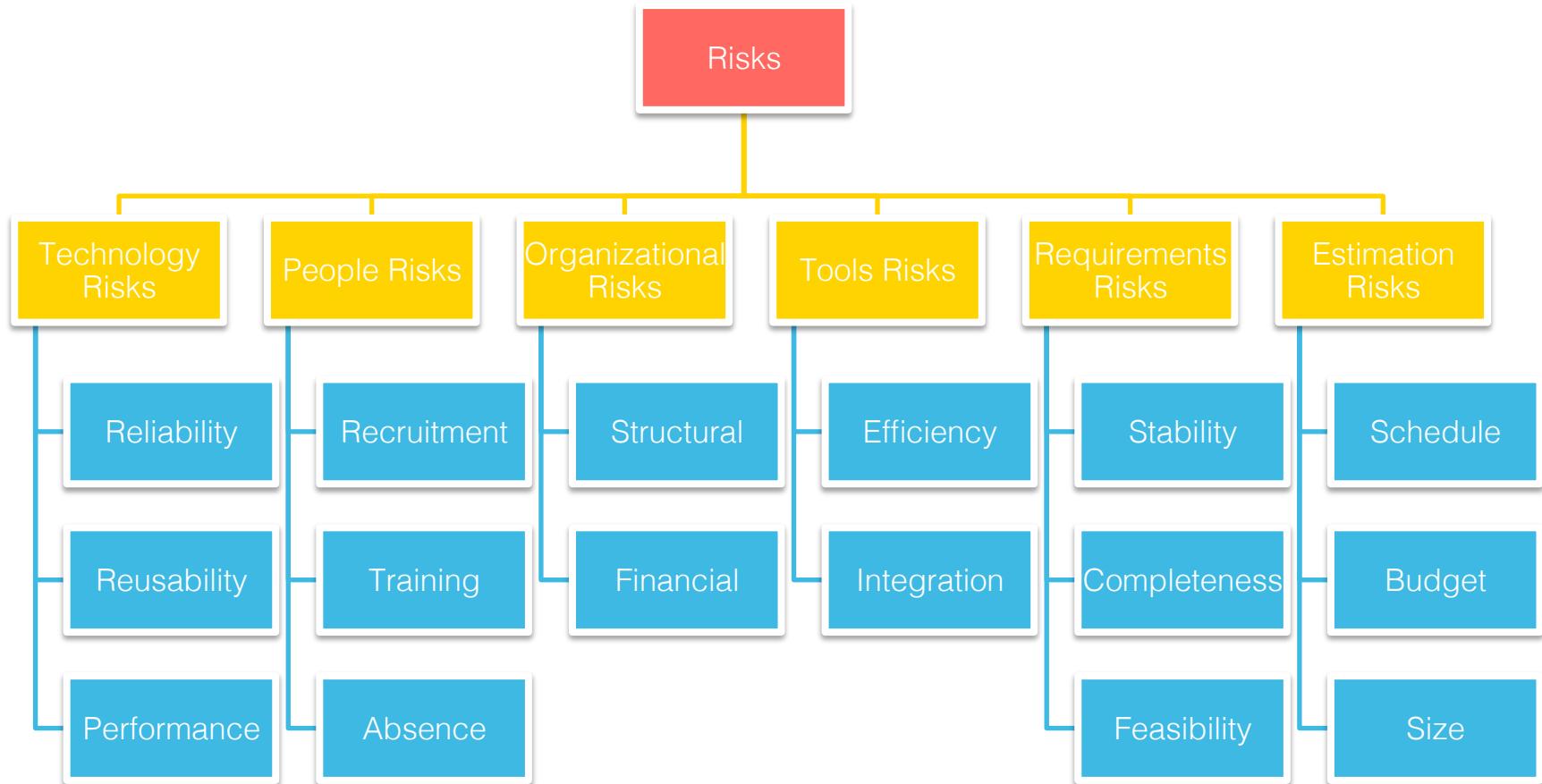
Cover all RM processes & activities within GruFamily project team.



Keep log of the identified risks for SC project.







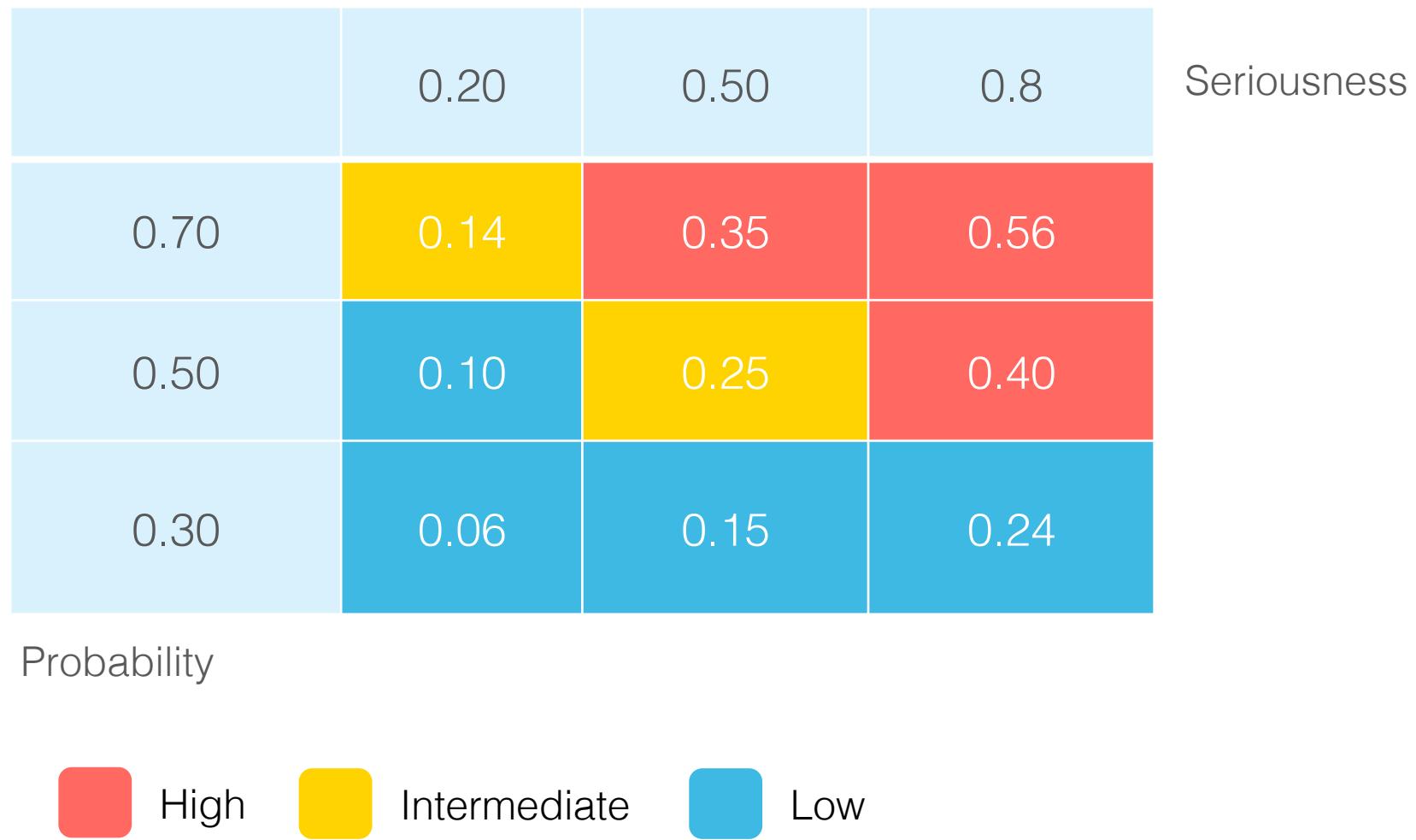


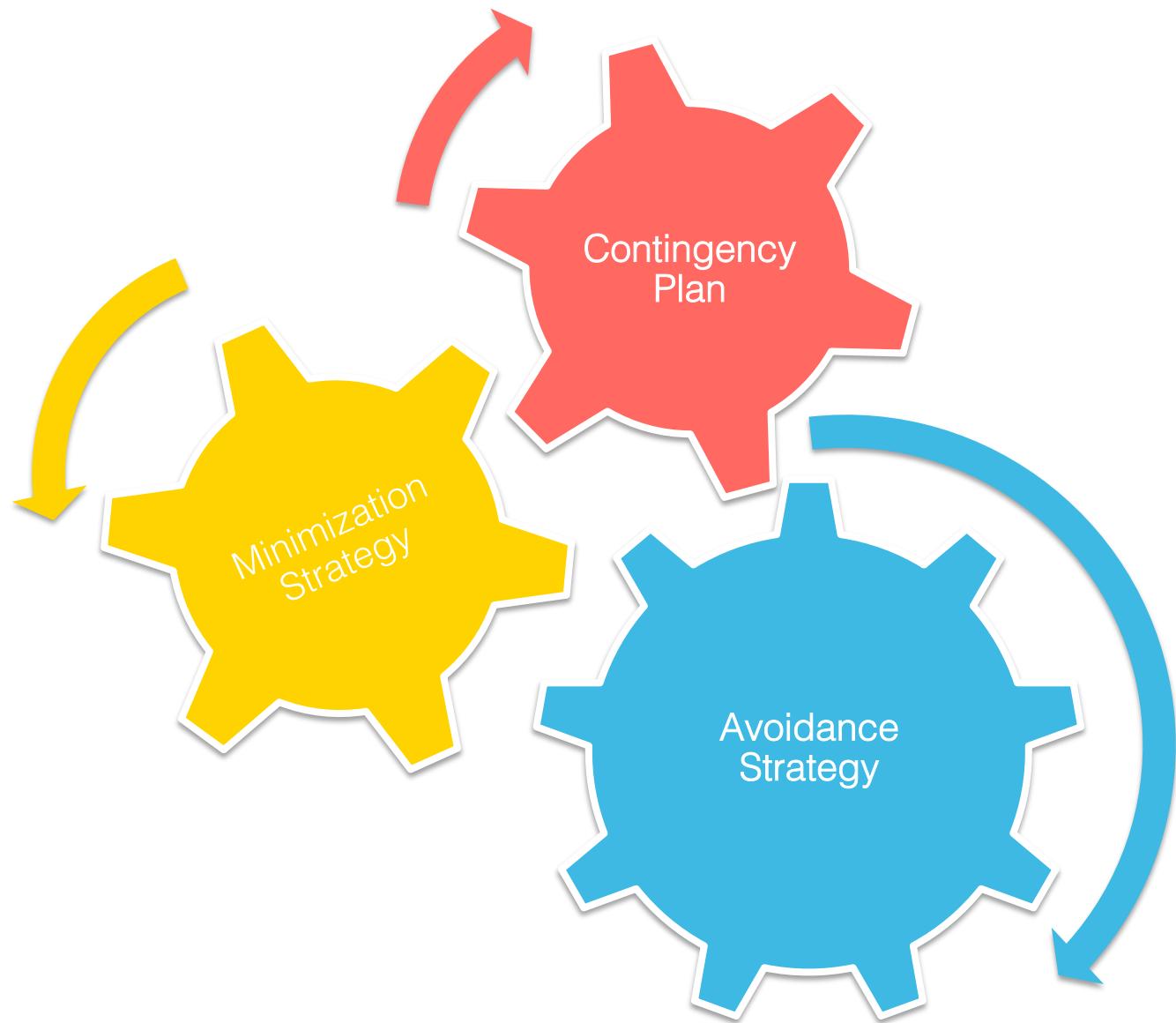
Risk effect seriousness

Project Objective	Low 0.20	Tolerable 0.50	High 0.80
Cost	Insignificant cost impact	15-40% cost impact	>40% cost impact
Schedule	Insignificant schedule impact	5-20% schedule impact	>20% schedule impact
Scope	Minor areas impacted	Major areas impacted	Product becomes effectively useless
Quality	Only very demanding applications impacted	Some sacrifices in major functionalities	Product becomes effectively useless



Threat Priority Matrix







Review

- Risk Management Plan
- Risk Log

Audit

- Risk management process

Track

- Status of identified risks & indicators
- Ongoing execution of risk responses

Identify

- New risks and prepare risk cycle accordingly

Risk Category	Risk Description	Priority	Strategies	Status
Organizational	The organization is restructured so that different management are responsible for the project.	High	Prepare brief presentation and detailed document for management showing how the project is progressing and making a very important contribution to the goals of the business. Keep effective and frequent communication with the new management team.	Supervised
Requirements	Changes to requirements that require major design rework are proposed.	High	Derive traceability information to assess requirements change impact, maximise information hiding in the design.	Triggered

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Product Introduction >

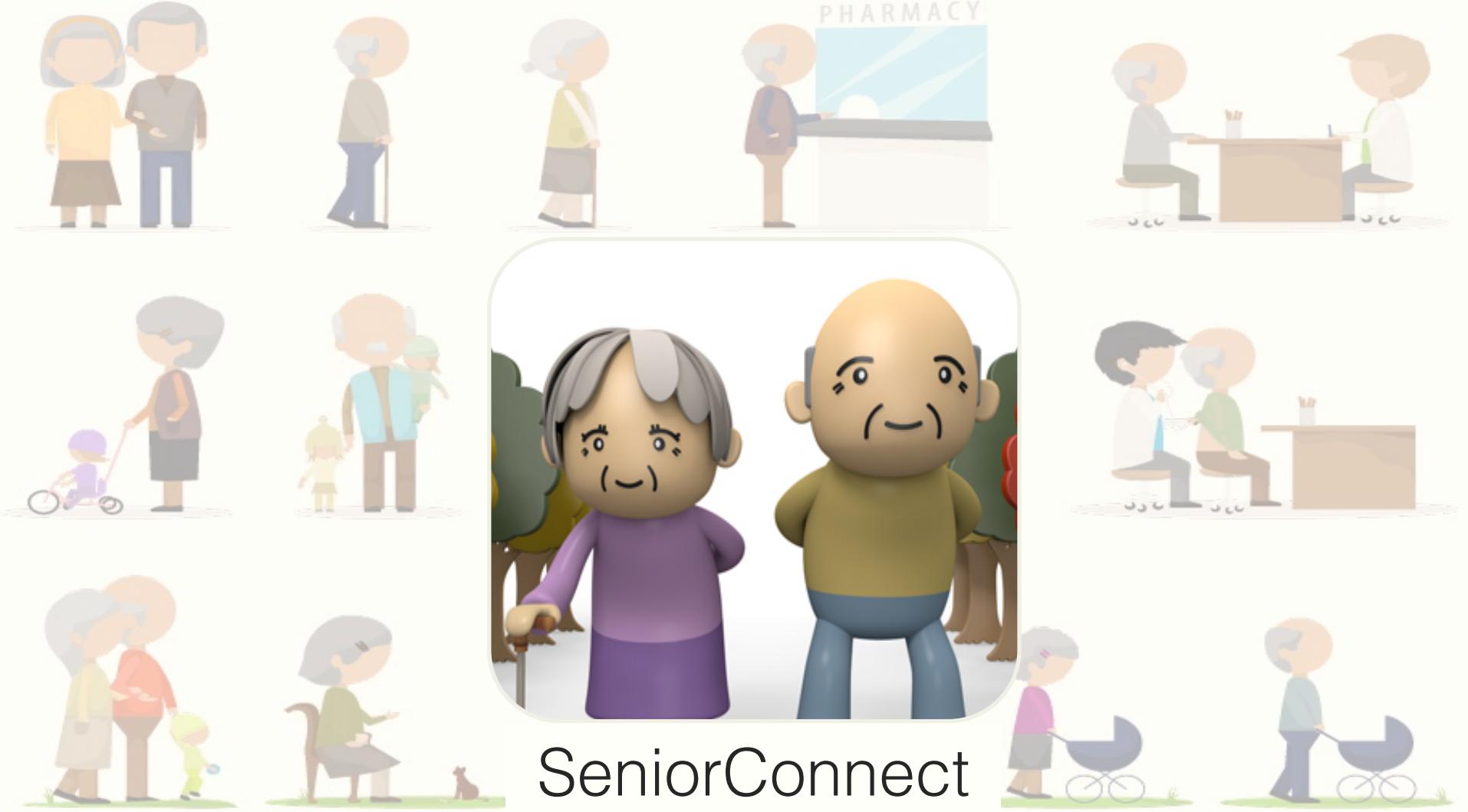
Technical Design >

Software Quality Assurance >

Project Management >

Change & Configuration Management >

Risk Management >



SeniorConnect

Thank You

