

METU CENG491 2015 FALL

START-UP DOCUMENT

G19P50

Group Name: Codeamans

Project Name: Personal Network

1. System Architecture

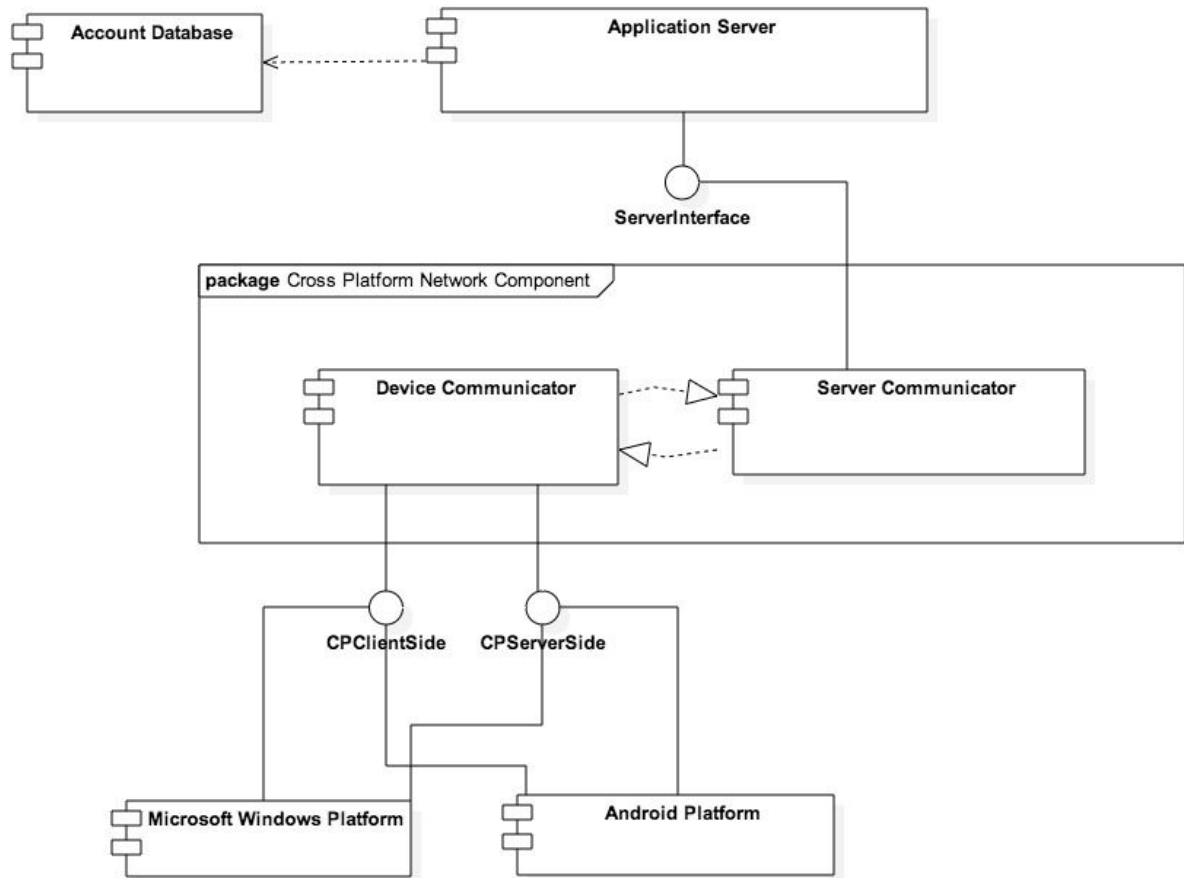


Figure 1: Component Diagram

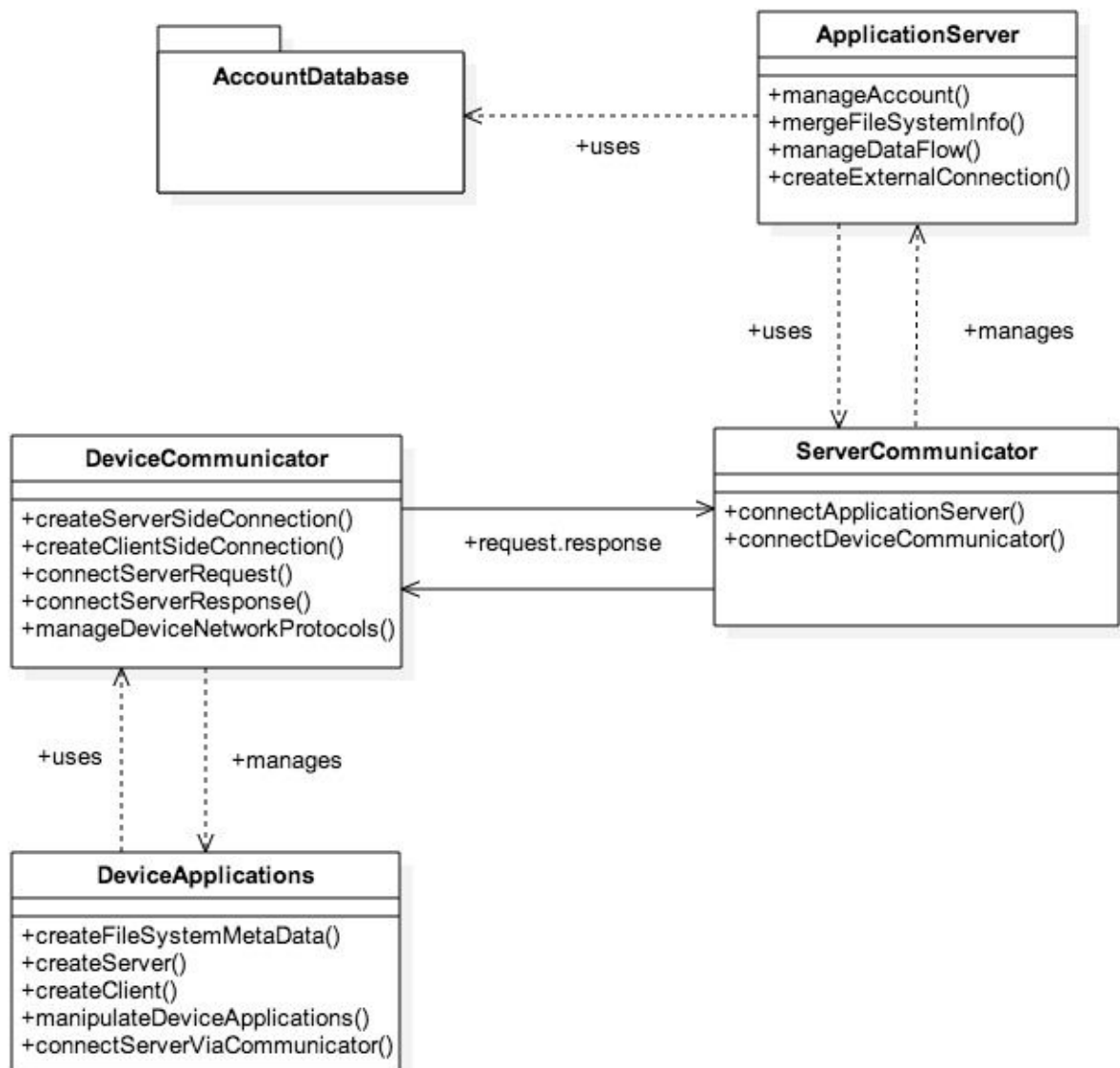


Figure 2: Class Diagram

2. Tentative Time Plan

Changelog:

After 12.01.2015 dated Team Meeting, we concentrated on research in more general topics related with a network application, namely mobility management, device management and security -data integrity, account confidentiality etc.-. This directly affected time plan, task priorities and expected deliverables that is planned in v1.0. The changes are applied in table below. However, diagrams above are still stand.

TaskID	Short Name	Description
A1	Application environment and language decision	Researching programming language and environment alternative for better performance and abstraction
A2	Windows file system meta data	Analysing Windows file system and creating a memory-friendly meta data
A3	Windows application level connection	Connecting Windows application to server via network component
A4	Android file system meta data	Analysing Android file system and creating a memory-friendly meta data
A5	Android application level connection	Connecting Android application to server via network component
S1	Server file system merge	Merging all network devices' file system meta data and creating a full topology
S2	Data flow	Managing data flow and connecting to network component
S3	Database decision	Researching alternative database systems
S4	Basic server implementation	Implementing application server
N1	TCP implementation	Implementing custom TCP protocol using decided programming language
N2	UDP implementation	Implementing custom UDP protocol using decided programming language
N3	HTTP/FTP implementation	Implementing HTTP/FTP protocols for file transfer and command systems
N4	Security issues research	Researching security concerns for related implementations
N5	Network research	Researching necessary network protocols and network implementation details

TaskID	Iteration 1	Iteration 2	Iteration 3
A1	X		
A2	X	X	
A3		X	X
A4	X	X	
A5		X	X
S1			X
S2	X	X	X
S3			X
S4	X	X	X
N1		X	X
N2			X
N3			X
N4			X
N5	X	X	

3. Deliverables

Deliverable	Description	Sprint(#)
D1	Server application	1,2,3
D2	Windows API	2,3
D3	Android API	3

4. Workload Distribution

	Sprint-I	Sprint-II	Sprint-III
Dođanalp Ergenç	A1, N5	N1, N2	N1, N3, N4
Gökalp Maviş	A1, A2	N3, A3, D2	S3, D1, D2
Can Çolak	A1, A4	N3, A4, A5	S3, D3
Mert Başkaya	A1, D1, N5	S4, S2, D1	N4, S1, D1