CSE 471: SYSTEM ANALYSIS & DESIGN

FINAL

(1) (A) File based datas storage format can be used. Since only one data needs to be stored and for short period of time, file will be ~~a faster~~ provide a faster performance. File will store the text sequentially and in an electronic list of information.

(B) Sequencial cohesion is maintained in this scenario. The successful execution of one function will help the next function to execute successfully following a sequence.

The output "guest information" from one function is the input for "Conversation Reservation" function to provide the output of "complete booking".

(C) (i) fan in(i) = 2

fan out(i) = 3

$$S(i) = \text{fan in}(i) * \text{fan out}(i)$$
$$= 2 * 3$$
$$= 6$$

Ag #2

(2) Record size = 10 + 11 + 30 + 25 + 50 = 126

Overhead = 25% * 126 = 31.5

Total record size = Record size + Overhead

= 126 + 31.5 = 157.5

Initial table size = 1500

Total initial table size = Initial table size * Total record size

= 1500 * 157.5 = 236250

Expected volume = Total initial table size +

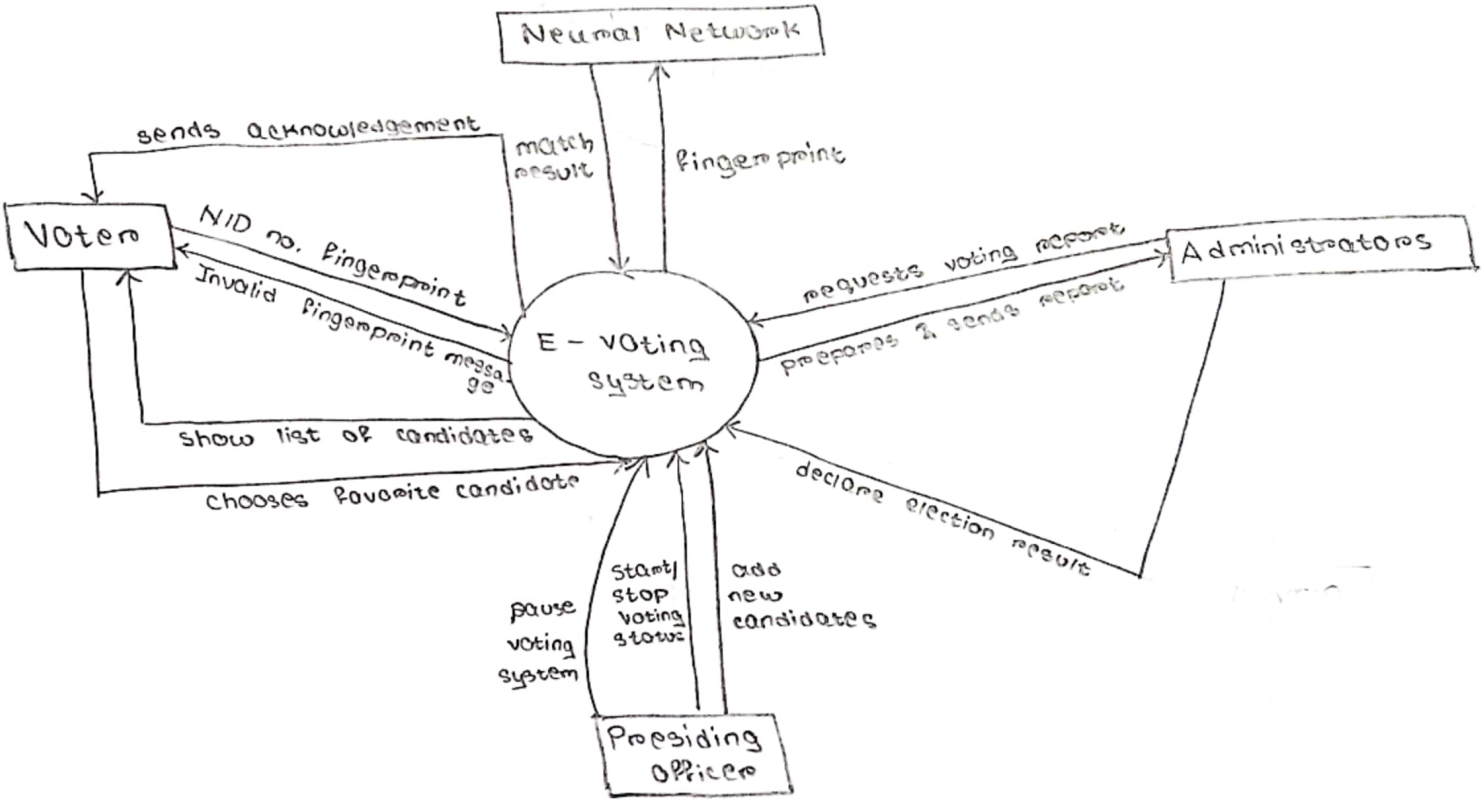
(growth rate/year * n * Total record size)

= 236250 +

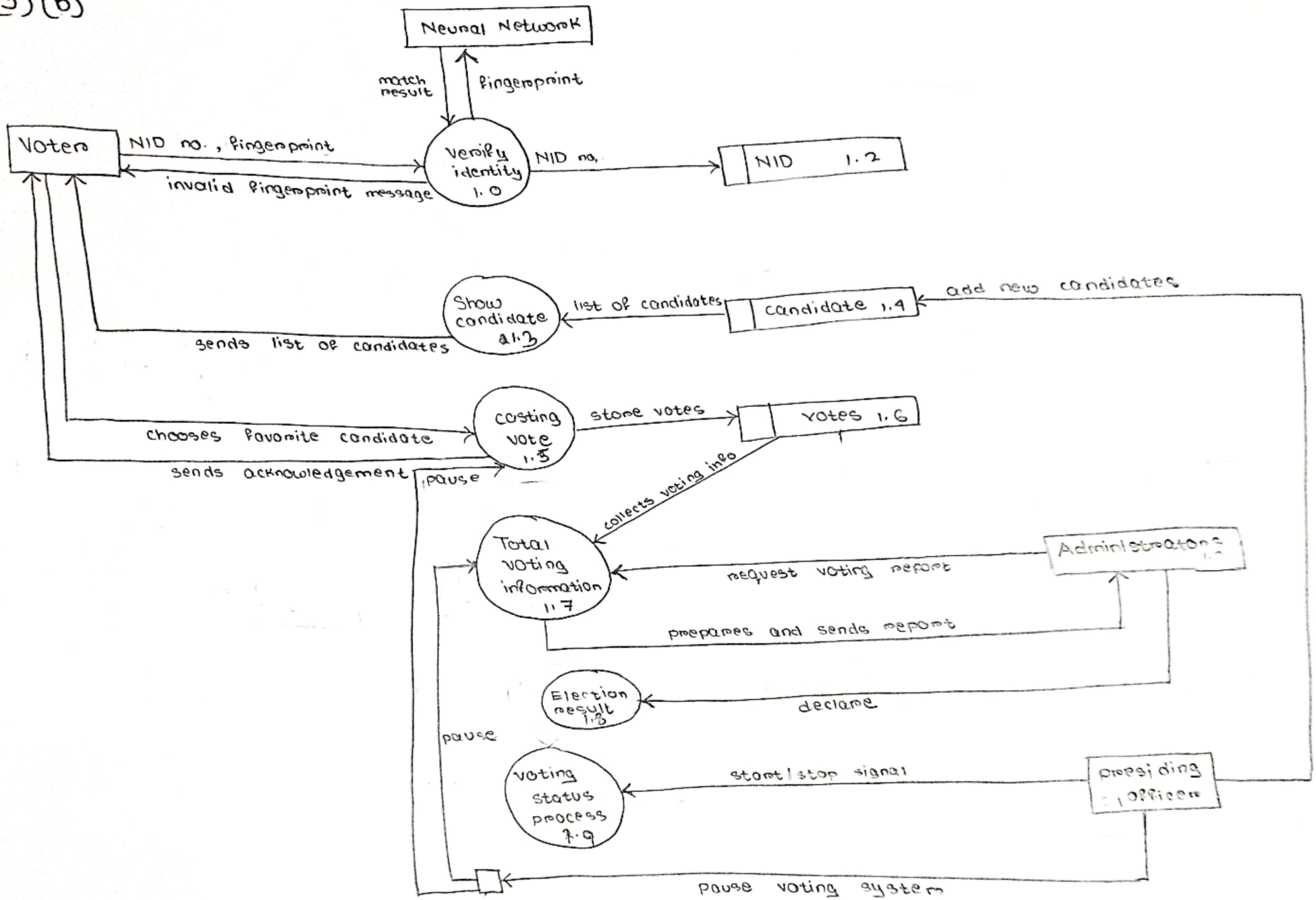
$\left(\frac{1000}{6} * 12 * 3 * 157.5\right)$

= 1181250

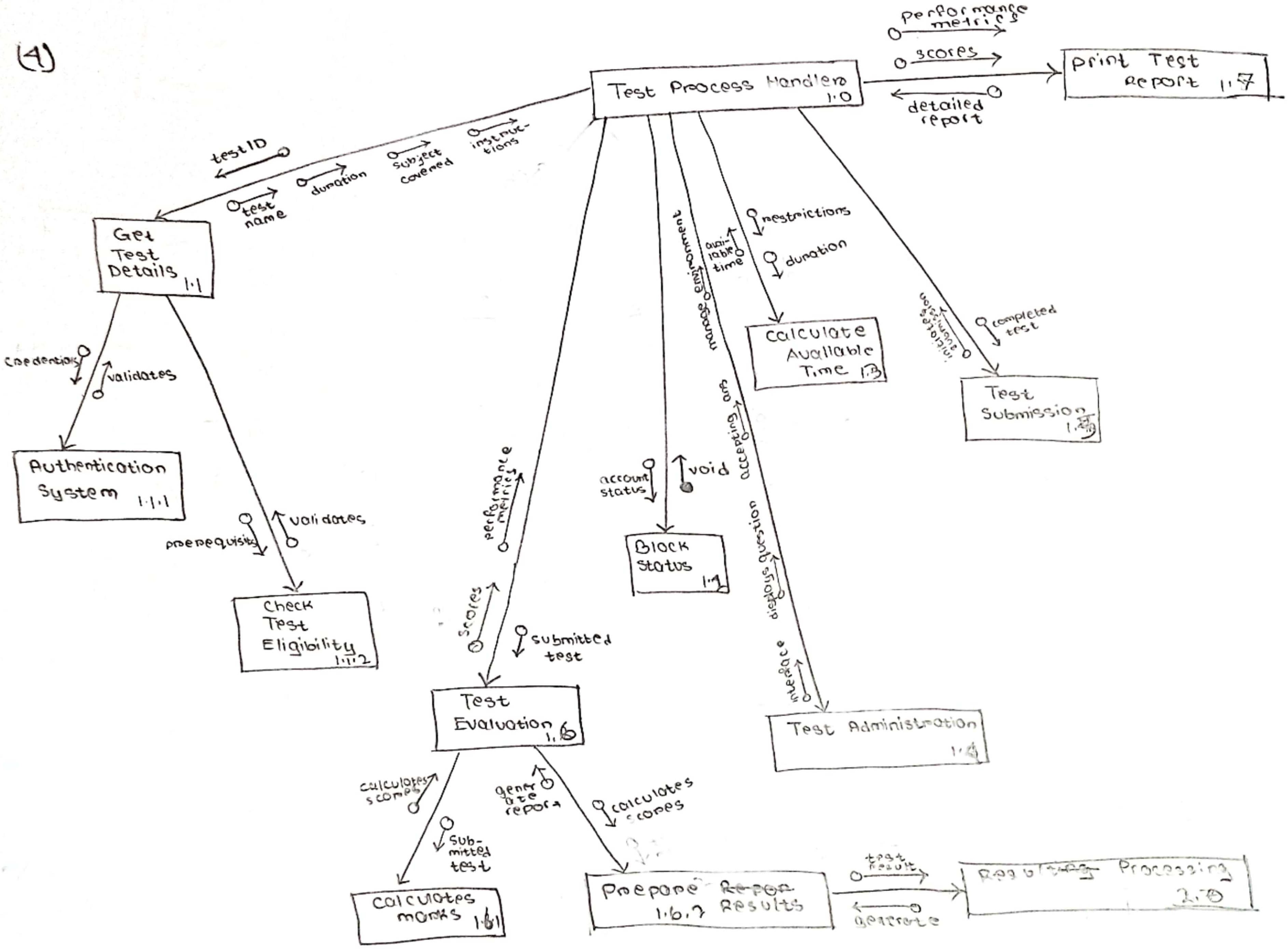
(3) (a)


Neural Network
sends acknowledgement
match result
fingerprint
Voter
NID no. fingerprint
Invalid fingerprint message
E - voting System
requests voting report
Administrators
prepares & sends report
show list of candidates
chooses favorite candidate
declare election result
pause voting system
start/ stop voting status
add new candidates
Presiding Officer

(3)(b)


Neural Network
match result
fingerprint
Voter
NID no., fingerprint
invalid fingerprint message
Verify identity 1.0
NID no.
NID 1.2
Show candidate 1.3
list of candidates
candidate 1.4
add new candidates
sends list of candidates
chooses favorite candidate
casting vote 1.5
store votes
votes 1.6
sends acknowledgement
pause
collects voting info
Total voting information 1.7
Administration
request voting report
prepares and sends report
Election result 1.8
declare
pause
voting status process 1.9
start/stop signal
Presiding officer
pause voting system

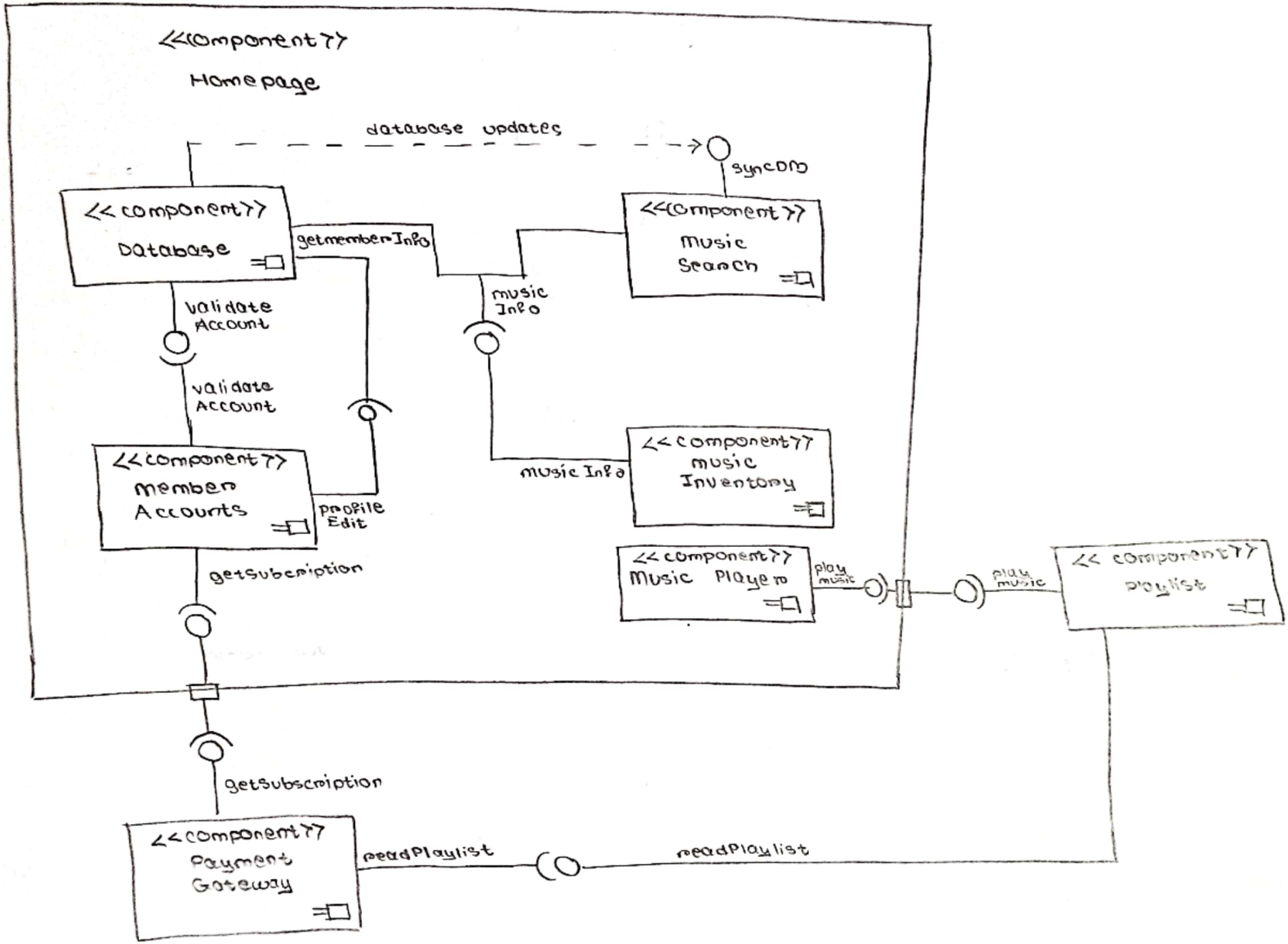
(4)



Test Process Handler 1.0
performance metrics
scores
detailed report
Print Test Report 1.7
testID
test name
duration
subject covered
instructions
Get Test Details 1.1
credentials
validates
Authentication System 1.1.1
prerequisite
validates
Check Test Eligibility 1.1.2
restrictions
duration
available time
Calculate Available Time 1.3
completed test
Test Submission 1.5
manage environment
accepting ans
displays question
interface
Test Administration 1.4
account status
void
Block Status 1.2
performance metrics
scores
submitted test
Test Evaluation 1.6
calculates scores
submitted test
Calculates marks 1.6.1
generate report
calculates scores
Prepare Results 1.6.2
test result
Results Processing 2.0

P#5

(5)


<<Component>>
Homepage
database updates
syncDB
<<component>>
Database
getmemberInfo
<<Component>>
Music
Search
validate
Account
music
Info
validate
Account
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member
Accounts
profile
Edit
<<component>>
music
Inventory
music Info
getsubscription
<<component>>
Music Player
play
music
play
music
<<component>>
playlist
getsubscription
<<component>>
Payment
Gateway
readPlaylist
readPlaylist