

PseudoCode

Content Server:

USER NAVIGATE WEBPAGE WITH CONTENT

```
IF USER REQUESTING PROFILE SPECIFIC CONTENT && USER HAS ACCESS THEN
    SERVER PROVIDES REDIRECTED DATA AT SPECIFIED PATH
ELSE IF USER REQUESTING PAGE SPECIFIC CONTENT && USER HAS ACCESS THEN
    SERVER PROVIDES REDIRECTED DATA AT GENERIC PATH
ELSE
    MISSING CONTENT CAUSES AN ERROR
```

User authentication Server:

USER NAVIGATE A GENERIC WEBPAGE

```
IF USER LOGIN COMPLETE THEN
    ADD AUTHENTICATION TOKEN IN SYSTEM WITH TIMEOUT OPTIONS
ELSE
    IF TOKEN EXPIRED BY TIMEOUT OR USER LOGOUT COMPLETE THEN
        REMOVE AUTHENTICATION TOKEN IN SYSTEM
    ELSE
        USER ACTIVITY KEEPS TOKEN FROM TIMEOUT
```

Login:

USER NAVIGATE LOGIN PAGE

USER INPUT LOGINID
USER INPUT PASSWORD

```
IF EXISTS LOGINID IN USERDB THEN
    IF PASSWORD MATCH PASSWORD IN USERDB.UID THEN
        ADD AUTHENTICATION TOKEN IN SYSTEM WITH TIMEOUT OPTIONS
    ELSE
        OUTPUT INVALID PASSWORD
ELSE
```

OUTPUT INVALID USERID

User Registration:

USER NAVIGATE LOGIN PAGE AND CHOOSES TO REGISTER

SHOW REGISTRATION FORM

USER INPUT MUNID

USER INPUT FIRSTNAME

USER INPUT LASTNAME

USER INPUT BIRTHDAY

USER UPLOAD IMAGE

USER SUBMIT

SERVER RECEIVE FORM AND PROCESS

ADD USER TO DATABASE

SERVER SEND CONFIRMATION EMAIL

FOR X AMOUNT OF TIME DO

IF USER ACTIVATE ACCOUNT THEN

SET USER.ACTIVATION TRUE

WAIT FOR USER TO ACTIVATE ACCOUNT

Homepage:

USER NAVIGATE HOMEPAGE PAGE

RENDER HOMEPAGE PAGE

WHILE USER VIEWING HOMEPAGE DO

SHOW HOMEPAGE DATA WITH SCROLLING POSTS

IF USER LOGIN STATE THEN

START LOGIN PROCESS

ELSE IF USER REGISTRATION STATE THEN

START REGISTRATION PROCESS

ELSE IF USER CLICK POST OR SEARCH THEN

SERVER PROCESS AND RETURN REQUEST

ELSE

WAIT FOR USER INPUT

User Profile:

USER NAVIGATE PROFILE PAGE

RENDER USER PROFILE PAGE

WHILE USER VIEWING PROFILE PAGE DO

SHOW PROFILE PAGE DATA FROM USERDB.UID.*

LOAD POSTS FROM POSTS.USER[UID].* AS INTERACTIVE OBJECTS

DEFER OTHER DATA TO CONTENT SERVER

IF USER CLICK INTERACTIVE OBJECT THEN

USER SEND REQUEST TO SERVER WAIT FOR RESPONSE

SERVER PROCESS REQUEST FROM USER SEND REQUESTED DATA OR STATUS

RENDER WEBPAGE CHANGES

ELSE

IF PAGE UPDATE BY OTHER THEN

RENDER WEBPAGE CHANGES

ELSE

WAIT FOR CHANGES

User Account:

USER NAVIGATE USER ACCOUNT PAGE

IF USERDB.UID.AUTHTOKEN == SESSION.TOKEN THEN

RENDER USER ACCOUNT SETTINGS

WHILE USER VIEWING ACCOUNT SETTINGS DO

IF USER SELECT OPTION THEN

OPTION = USER INPUT

ELSE IF USER SAVE CHANGES THEN

USER SEND REQUEST TO SERVER WAIT FOR RESPONSE

SERVER PROCESS REQUEST USER SEND STATUS DATA

RENDER CHANGES OR SHOW ERRORS

ELSE

WAIT

ELSE

RENDER PROFILE VIEW

DEFER TO PROFILE PAGE

Study Group:

USER NAVIGATE STUDY GROUP

RENDER STUDY GROUP PAGE

WHILE USER VIEWING STUDY GROUP DO

SHOW GROUP PAGE DATA FROM GROUPDB.GID.*

LOAD POSTS FROM POSTS.GROUP[GID].* AS INTERACTIVE OBJECTS

DEFER OTHER DATA TO CONTENT SERVER

```
IF USER CLICK INTERACTIVE OBJECT THEN
  USER SEND REQUEST TO SERVER WAIT FOR RESPONSE
  SERVER PROCESS REQUEST FROM USER SEND REQUESTED DATA OR STATUS
  RENDER WEBPAGE CHANGES IF NECESSARY
ELSE
  IF PAGE UPDATE BY OTHER THEN
    RENDER WEBPAGE CHANGES
  ELSE
    WAIT FOR CHANGES
```

Lost & Found:

```
USER NAVIGATE LOST AND FOUND
RENDER LOST AND FOUND PAGE
```

```
WHILE USER VIEWING LOSTFOUND DO
  LOAD ITEMS FROM LOSTFOUND DATA AS INTERACTIVE OBJECTS
  IF USER CLICK INTERACTIVE OBJECT THEN
    USER SEND REQUEST TO SERVER WAIT FOR RESPONSE
    SERVER PROCESS REQUEST FROM USER SEND REQUESTED DATA OR STATUS
    RENDER WEBPAGE CHANGES IF NECESSARY
  ELSE
    IF USER CLICK SUBMIT
      CLIENTSIDE SCRIPT VALIDATES LOST&FOUND INFO
      IF VALIDATED
        NEW LOST&FOUND OBJECT STORED IN CONTENT DATABASE
      IF PAGE UPDATE BY OTHER THEN
        RENDER WEBPAGE CHANGES
      ELSE
        WAIT FOR CHANGES
```

User Schedule:

```
USER NAVIGATE PROFILE PAGE
IF USERDB.UID.AUTHTOKEN == SESSION.TOKEN THEN
  DEFER TO ACCOUNT PROFILE
  IF USER SELECT EDIT THEN
    RENDER INNERPAGE SCHEDULE FORM INCLUDE EXISTING SCHEDULE DATA
    WHILE EDITING DO
      IF USER CLICK INTERACTIVE OBJECT THEN
        FORM UPDATE
      ELSE IF USER CLICK SAVE THEN
        FORM SUBMIT TO SERVER WAIT FOR RESPONSE
        SERVER PROCESS REQUEST FROM USER SEND STATUS
        RENDER WEBPAGE CHANGES
```

```
    ELSE
        WAIT
ELSE
    DEFER TO PROFILE
```

User Resume:

USER NAVIGATE PROFILE PAGE

```
IF USERDB.UID.AUTHTOKEN == SESSION.TOKEN THEN
    DEFER TO ACCOUNT PROFILE
    IF USER SELECT EDIT THEN
        RENDER INNERPAGE RESUME FORM INCLUDE EXISTING RESUME DATA
        WHILE EDITTING DO
            IF USER MODIFY INTERACTIVE OBJECT THEN
                FORM UPDATE
            ELSE IF USER CLICK SAVE THEN
                FORM SUBMIT TO SERVER WAIT FOR RESPONSE
                SERVER PROCESS REQUEST FROM USER SEND STATUS
                RENDER WEBPAGE CHANGES
            ELSE IF USER CLICK CANCEL THEN
                DESTROY OBJECT
            ELSE
                WAIT
        ELSE
            DEFER TO PROFILE
```

Lost&Found:

USER NAVIGATE LOST&FOUND PAGE

```
IF EXISTS SESSION.TOKEN THEN
    IF USER SELECT ADD THEN
        RENDER ITEM FORM
        WHILE EDITTING DO
            IF USER MODIFY FORM THEN
                FORM UPDATE
            IF USER CLICK SUBMIT THEN
                FORM SUBMIT TO SERVER WAIT FOR RESPONSE
                SERVER PROCESS REQUEST FROM USER SEND STATUS
                RENDER WEBPAGE CHANGES
            ELSE USER CLICK CANCEL THEN
                DESTROY OBJECT
                RENDER NORMAL
```

```
    ELSE
      WAIT
ELSE
  REQUIRE LOGIN
```

Polls:

PAGE RENDERED POLLS

```
IF EXISTS SESSION.TOKEN THEN
  IF USER SELECT POLL OPTION THEN
    SUBMIT REQUEST TO SERVER WAIT FOR RESPONSE
    SERVER PROCESS REQUEST FROM USER SEND STATUS
    RENDER POLL RESULTS
  ELSE
    IGNORE USER
ELSE
  REQUIRE LOGIN
```

Posts:

USER INTERACT OR CREATE POST

```
IF EXISTS SESSION.TOKEN THEN
  IF USER CREATE POST THEN
    RENDER POST FORM
    WHILE EDITTING DO
      IF USER MODIFY FORM THEN
        UPDATE FORM
      IF USER CANCEL FORM THEN
        DESTROY FORM
        RENDER NORMAL
      IF USER SUBMIT FORM THEN
        SUBMIT REQUEST TO SERVER WAIT FOR RESPONSE
        SERVER PROCESS REQUEST FROM USER SEND STATUS
        RENDER PAGE CHANGES
      ELSE
        WAIT
  IF USER COMMENT POST THEN
    RENDER COMMENT FORM
    WHILE EDITTING DO
      IF USER MODIFY FORM THEN
        UPDATE FORM
      IF USER CANCEL FORM THEN
        DESTROY FORM
        RENDER NORMAL
```

```
IF USER SUBMIT FORM THEN
  SUBMIT REQUEST TO SERVER WAIT FOR RESPONSE
  SERVER PROCESS REQUEST FROM USER SEND STATUS
  RENDER PAGE CHANGES
ELSE
  WAIT
ELSE
  IGNORE USER
ELSE
  REQUIRE LOGIN
```