**Professor functions:**

function: professor\_first\_login

str login\_id (max 15)

str title (max 24)

str last\_name (max 40)

str first\_name (max 40)

str token (max 40)

return positive integer value - professor\_id - if successful, 0 or negative value, otherwise.

function professor\_class\_list – list of classes available to professor

datetime hashtime

str md5\_hash

int professor\_id

returns list of classes for given professor\_id

[{course\_id, class\_id, section}]

function set\_class - used by professor to make class available to login

datetime hashtime

str md5\_hash

int class\_id

int professor\_id

returns datetime date\_set\_time (logins will be checked against this)

returns str verify\_code – you can safely ignore this for now. This is that verify code we talked about before, but we’re not using it yet. We may get to it, but probably not.

function attendance\_by\_date – gives list of students present/absent on given date

datetime hashtime

str md5\_hash

int professor\_id

int class\_id

returns list of students and whether they were present or absent

[{student\_id, last\_name, first\_name, code for that day (see student\_login function for codes)}]

function set\_attendance

datetime hashtime

str md5\_hash

int professor\_id

int class\_id

date class\_date

int student\_id

int attendance\_code (see student\_login function for codes)

returns positive integer - which will happen to be the tid for that login - for success, < 1for error

functions attendance\_by\_student

datetime hashtime

str md5\_hash

int professor\_id

int class\_id

int student\_id

returns list of class dates and attendance codes:

[{date, code}]

**Student functions:**

function: student\_first\_login

str login\_id (max 15)

str username (max 40)

str last\_name (max 40)

str first\_name (max 40)

str token (max 40)

return positive integer value - student id - if successful, 0 or negative value, otherwise.

function student\_list – list of classes available to student

datetime hashtime

str md5\_hash

str studentid

returns list of classes for given student\_id

{course\_id, class\_id, section}

function student\_login – student uses to mark self present

datetime hashtime

str md5\_hash

str student\_id

int class\_id

str ip\_address (max 24)

float latitude

float longitude

returns integer:

0 – successful login

1 – login more than 1 hour after set\_course

2 – login more than 3 hours after set\_course

3 – md5\_hash failed

4 – other error