**Log In**

**Abstract Code**

* User enters email ($email)and *pin ($pin)*
* User clicks <**Login>** button:
  + if form is validated, then:

|  |
| --- |
| SELECT pin FROM `User` WHERE email=’$email |

* + - if *email* does not have a known record, login page is redisplayed with an error message
    - else if *email* is found, and *pin* does not match, then login page is redisplayed with error message
    - Else create a session and store record of the user in $UserName and proceed to Home Screen
  + Else show an error message indicating the form was not validated

**View Home Page**

**Abstract Code**

* Find the current USER using the User.*email*

|  |
| --- |
| SELECT name FROM `User` WHERE User.email=’$email’ |

* Find the Corkboards followed by the USER

|  |
| --- |
| SELECT title, visibility, category type FROM Corkboard WHERE Corkboard.owner\_email =’$email’ |

* Find users followed by USER

|  |
| --- |
| SELECT email FROM Follows WHERE Follows.follower\_email=’$email’ |

* Display the USERs username
* Find each update to boards that are owned or watched by USER, or owned by a user followed by USER

|  |
| --- |
| SELECT title, date\_time FROM Corkboard INNER JOIN PushPin ON Corkboard.owner\_email = PushPin.owner\_email ORDER BY date\_time DESC |

* + Sort updates and display the 4 newest updates
  + If no updates
    - Display message “No Updates”
* Display all Corkboards Sorted alphabetically that are owned by USER

|  |
| --- |
| SELECT title FROM Corkboard INNER JOIN Private\_Corkboard ON Corkboard.owner\_email = Private\_Corkboard.owner\_email WHERE Corkboard.owner\_email =’$email’ |

* While no buttons are pushed, do nothing
* When a button is push, then do:
  + if POPULAR\_TAGS, **View Popular Tags**
  + if ADD\_CORKBOARD, **Add Corkboard**
  + if PUSHPIN\_SEARCH, **Search PushPins**
  + if CORKBOARD\_UPDATE, Write to Corkboard, **View Corkboard**
  + if MY\_CORKBOARD, **View Corkboard**
  + if CORKBOARD STATS, **View Stats**
  + if POPULAR\_SITES, **View Popular Sites**

**Add Corkboard**

**Abstract Code**

* Display window with input forms and a dropdown containing Corkboard Categories alphabetically
* if USER selects Private
  + USER must enter password ($Password)

|  |
| --- |
| INSERT INTO Private\_Corkboard ( title, owner\_email, password )  VALUES ( $Title, $Email, $Pin |

* While no buttons are pushed, do nothing
* If a button is pushed , then do:
  + if ADD, Write to Corkboard, **View Corkboard**

**View Corkboard**

**Abstract Code**

* Find the OWNER, CATEGORY, and IMAGES of the CORKBOARD ($Title)

|  |
| --- |
| SELECT owner\_email, category\_type, url FROM Corkboard c INNER JOIN Private\_Corkboard pc ON c.owner\_email = pc.owner\_email INNER JOIN PushPin pp ON c.owner\_email = pp.owner\_email WHERE c.title = $Title |

* Display OWNER, CATEGORY, and IMAGES
* If OWNER is current USER, Enable ‘Add PushPin’ button
* If current USER is not OWNER, display ‘follow’ button
* If current USER is not OWNER and CORKBOARD is public, display ‘watch’ button
* Display number of watchers

|  |
| --- |
| SELECT COUNT(\*) FROM (SELECT email FROM Corkboard c INNER JOIN Watch w ON c.title = w.title WHERE c.title = $Title) |

* While no buttons are pushed, do nothing
* If a button is pushed, then do:
  + if FOLLOW, Write to USER, **View Corkboard**
  + if ADD\_PUSHPIN, Write to Corkboard, **Add Pushpin to Corkboard**
  + if WATCH, Write to USER, **View Corkboard**

|  |
| --- |
| INSERT INTO Watch ( email, title, owner\_email)  VALUES ( $Email, $Title, $Owner\_Email) |

* + if <image>, **View PushPin**

**Add PushPin to CorkBoard**

**Abstract Code**

* Display window with input forms
* Display CATEGORY
* While no buttons are pushed, do nothing
* If a button is pushed, then do:
  + if ADD, Validate Form, Write to Corkboard, **View Corkboard**

|  |
| --- |
| INSERT INTO PushPin ( url, owner\_email, date\_time, title)  VALUES ($url, $Email, $DateTime, $Title) |

**View PushPins**

**Abstract Code**

* Find OWNER of PushPin ($PushPin)

|  |
| --- |
| SELECT owner\_email FROM PushPin WHERE PushPin.title = $PushPin |

* Display OWNER
* Find DATE and TIME of Pin

|  |
| --- |
| SELECT date\_time FROM PushPin WHERE PushPin. |

* Display DATE and TIME of Pin
* Find CATEGORY of Pin

|  |
| --- |
| SELECT category\_type FROM PushPin pp INNER JOIN Category c ON pp.title = c.title WHERE |

* Display CATEGORY
* Find COMMENTS and LIKES

|  |
| --- |
| SELECT text, date\_time FROM `Comment` WHERE url = $PushPin.url GROUP BY text  ORDER BY date\_time ASC; |
| SELECT email, COUNT(email) FROM `Like` WHERE url = $PushPin.url GROUP BY email; |

* Display LIKES
* Display COMMENTS sorted by date/time
* Find TAGS of Pin

|  |
| --- |
| SELECT tags FROM PushPin pp INNER JOIN Category c ON pp.title = c.title WHERE pp.title = $Title AND pp.url = $url AND pp.owner\_email = $Email AND pp.date\_time = $DateTime |

* Display TAGS sorted alphabetically
* While no buttons are pushed, do nothing
* If a button is pushed, then do:
  + if FOLLOW, Write to USER, **View PushPin**

|  |
| --- |
| INSERT INTO Follows ( email, follower\_email ) VALUES ( $Email, $Follower\_Email ) |

* + if *<hyperlinked Category>*, **View Corkboard**
  + if <*image>*, GOTO Hyperlinked Site
  + if POST\_COMMENT, Write to PushPin, **View PushPin**

|  |
| --- |
| INSERT INTO `Comment` ( date\_time, text, email, url, title, owner\_email )  VALUES ( $DateTime, $Text, $Email, $Url, $Title, $Owner\_Email ) |

* + if THUMBS\_UP, Write to PushPin, **View PushPin**

|  |
| --- |
| INSERT INTO `Like` ( email, date\_time, url, title, owner\_email )  VALES ($Email, $DateTime, $Url, $Title, $Owner\_Email ) |

**Search PushPins**

**Abstract Code**

* Find related PushPins

|  |
| --- |
| SELECT title, url, description FROM PushPin pp INNER JOIN Tags t ON t.name = pp.tags WHERE pp.title = $Title AND pp.date\_time = $Date\_time AND pp.owner\_email = $Owner\_email AND pp.title = $Title; |

* For Each PushPin in related PushPins:
  + Find OWNER, and CORKBOARD the Pin is on
  + If CORKBOARD is public
    - Display alphabetically PUSHPIN{hyperlink}, CORKBOARD, OWNER

|  |
| --- |
| SELECT owner\_email, title, description FROM (SELECT title, url, description FROM PushPin pp INNER JOIN Tags t ON t.name = pp.tags WHERE pp.title = $Title AND pp.date\_time = $Date\_time AND pp.owner\_email = $Owner\_email AND pp.title = $Title)  ORDER BY description ASC; |

* While not button is pushed, do nothing
* When button is pushed, then do:
  + if PUSHPIN\_DESCRIPTION, **View PushPin**

**View Popular Tags**

**Abstract Code**

* Find Popular Tags
* For Each Tag in related Popular Tags:
  + Find #PUSHPINS, and #CORKBOARD the Tag is on
  + Display TAG{hyperlink}, #PUSHPINS, and #CORKBOARDs sorted by most Pushpins followed by most Corkboards

|  |
| --- |
| SELECT name, COUNT (name), url, title FROM Tags INNER JOIN PushPin pp ON Tags.name = pp.tag  GROUP BY name  ORDER BY COUNT(url) DESC, COUNT(title) DESC  LIMIT 5; |

* While not button is pushed, do nothing
* When button is pushed, then do:
  + if TAG, Search Tags

**View Popular Sites**

**Abstract Code**

* Find Popular Sites
* For Each Site in related Popular Sites:
* Find #PUSHPINS the Site is on
* Display SITE, #PUSHPINS sorted by most PushPins

|  |
| --- |
| SELECT url, COUNT(url) FROM PushPin  GROUP BY url  ORDER BY COUNT(url) DESC  LIMIT 4; |

* While not button is pushed, do nothing
* When button is pushed, then do:
  + if TAG, Search Tags

**View Stats**

**Abstract Code**

* Find all USERS
* For Each USER within USERS
  + Find PUBLIC CORKBOARDS
  + Find PUBLIC PUSHPINS
  + Find PRIVATE CORKBOARDS
  + Find PRIVATE PUSHPINS

|  |
| --- |
| SELECT email, COUNT(title), COUNT(url), COUNT(password), COUNT(title, owner\_email) FROM `User` INNER JOIN Corkboard cb ON `User`.email = cb.email INNER JOIN Private\_Corkboard pc ON `User`.email = pc.email INNER JOIN PushPin pp ON `User`.email = pp.email  GROUP BY email  ORDER BY COUNT(title) DESC, COUNT(title, owner\_email) DESC; |

* + Display number of PUBLIC CORKBOARDS→ {Sorted by most: Wt=1}
  + Display number of PUBLIC PUSHPINS
  + Display number of PRIVATE CORKBOARDS → {Sorted by most: Wt=2}
  + Display number of PRIVATE PUSHPINS