Team 04

```
post '/authenticate-user' do
    @login = params[:user_email]
    @password = params[:user_password]
    @result = UserAuthentication.check @login , @password
    if @result == -1
        @error = "Invalid login or password"
    else
        if (UserAuthentication.getAccessLevel @result) == 0
            @details = Bookmarks.getAccessDetails @result
            if @details[:user_suspended] == 1
                redirect '/msg?msg=suspendedMsg'
            elsif @details[:user_type] == Bookmarks::UNVERIFIED_STRING
                redirect '/msg?msg=unverifiedMsg'
        elsif UserAuthentication.hasPasswordReset(@login)
            redirect "/change-password?userID=#{@result}"
        else
            session[:userID] = @result
            redirect '/'
        end
    end
    erb:loginpage
end
```

Figure 1 Snippet A (bookmark-site.rb)

```
# Search handling.

get '/search' do

@searchQuery = params["search_query"]

@fullResults = Bookmarks.getHomepageData @searchQuery

#variables for tagControl

#tagList = Bookmarks.getTagNames

#get tags for filter either from submitted form

#or redirected after clicking on a tag in bookmark details

@checked = params[:showTag] ? [params[:showTag]] : (extractTagsFromParams params)

if(@fullResults.length != 0) then

@results = filterAgainstTags @fullResults, @checked

erb :search

else

erb :noResults

end

sed
```

```
post '/bookmark-spesifics' do
    if Bookmarks.resourceExists? params[:bookmarkID], "bookmark"
        @userID = session[:userID]
        @bookmarkID = params[:bookmarkID]
        @value = params[:selection] #submitted rating
        if Bookmarks.isInteger @value then
            if Bookmarks.getRating(@bookmarkID, @userID) == nil then
                success = addRating @bookmarkID, @userID, @value
            else
                success = changeRating @bookmarkID, @userID, @value
            end
            if success then
                redirect '/msg?msg=ratingAddedMsg'
            end
        end
        redirect '/msg?msg=actionErrorMsg'
    else
        redirect '/msg?msg=missingResourceMsg'
    end
end
```

Figure 3 Code Snippet C (bookmark-site.rb)

```
get '/reported-bookmarks' do

if (UserAuthentication.getAccessLevel session[:userID]) == 2 #Is current user an admin

@reportList = Bookmarks.getUnresolvedReports

if @reportList.length() > 0 then

@reportTable = erb :reportTable, :locals => {:reportList => @reportList}

erb :reportedBookmarks

else

redirect '/msg?msg=noReportsMsg'

end

else

redirect '/'

end

end

end

end
```

Figure 4 Code Snippet D (bookmark-site.rb)

```
# Insert user's details into db when they register an account

def Bookmarks.addRegisterDetails (uEmail, uDisplay, uDepartment, password)

if !Bookmarks.isUniqueValue('users','user_email',uEmail) then

return false

elsif uEmail.nil? then

return false

else

query = "INSERT INTO users(user_email, user_displayName, user_department,

user_password, user_type, user_suspended)

VALUES (?, ?, ?, ?, ?);"

@@db.execute query, uEmail, uDisplay, uDepartment, BCrypt::Password.create(password), UNVERIFIED_STRING, 0

return true

end

end

end

end
```

Figure 5 Snipped E (ruby-scripts/database-model.rb)

```
#Change bookmark details

def Bookmarks.updateBookmark (bookmarkID, bookmarkTitle, bookmarkDesc, bookmarkLink)

if bookmarkTitle.nil? then

return false

else

query = "UPDATE bookmark

SET bookmark_title = ?, bookmark_description = ?, bookmark_link = ?

WHERE bookmark_ID = ?;"

@@db.execute query, bookmarkTitle, bookmarkDesc, bookmarkLink, bookmarkID

return true

end

end

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end
```

Figure 6 Snippet F (ruby-scripts/database-model.rb)

```
#Checks if value passed exists in a database
#Params tableName - name of the table in which to look for uniquess

# columnName - name of the column in which to check uniquess

# value - value to be looked for

# walue - value to be looked for

# false - if it does

# nil -if given column or table name are incorrect

# gookmarks.isUniqueValue tableName , columnName , value

if (Bookmarks.getColumnNames tableName).include? columnName

query = "SELECT DISTINCT #{columnName}

| FROM #{tableName}} ;"

result = @@db.execute query

(0..(result.length()-1)).each do |i|

if result[i][columnName] == value

return false
end

end

return true

end

return nil

end

end

end

end

return nil

end
```

Figure 7 Snippet G (ruby-scripts/database-model.rb)

```
def filterAgainstTags bookmarks, tags

if !tags || tags.length == 0
    return bookmarks

end

result = Array.new
bookmarks.each do |bookmark|

result<<bookmarks.each do |bookmarks.getBookmarkTagsNames bookmark[:ID].to_i), tags).length > 0)

end

return result

end

return result

end

return result
```

Figure 8 Snippet H (ruby-scripts/support-functions.rb)