



**Course** – CSCI 5308 (Advance Topics in Software Development)

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# **“SCRUM ACERS”**

Scrum Acers is a platform that is developed to increase the development productivity by making the scrum time more productive by letting the peers know about the updates and blockers beforehand. Also, this platform is developed to avoid unnecessary long calls/meetings so that team members can focus more on getting the work done.

## **Project Objectives**

- Increase Dev productivity by decreasing time spent on project management tasks
- Mitigate Daily Stand-up meetings
- Provide a platform for team members to vote/provide feedback for current and future scrums anonymously
- Provide a platform for company-wide / project-wide announcements
- Recognize efficient teamwork and great intra-team collaborations by giving out badges to well-deserving employees

## **Project Features:-**

- 1) Login for each employee
- 2) Daily Scrum Forms
- 3) Leave Management
- 4) Badging
- 5) Announcement
- 6) Survey
- 7) Notification
- 8) Hours Tracking
- 9) Profile Creation of each Employee
- 10) User Profile
- 11) User Password Management

## **Feature 1: Log in for Each Employee**

It is the first page, where the user gets the option to login into their account.

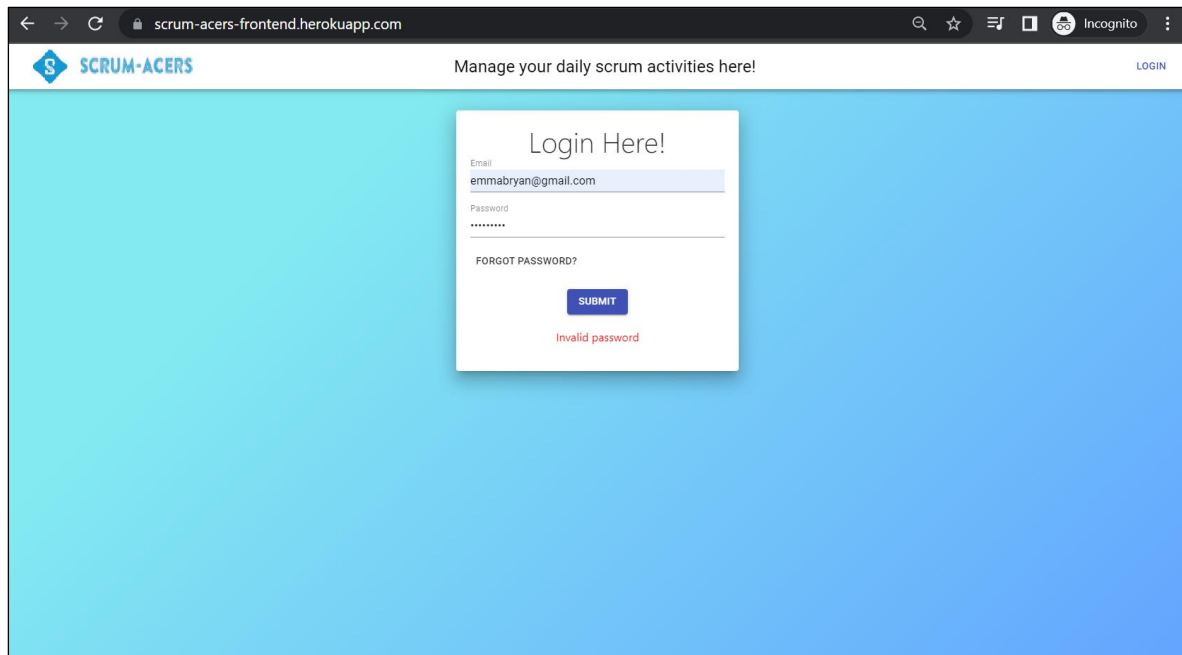
- We have taken care of all the validations and users will be able to login only with the correct credentials.
- We have also incorporated the forgot password functionality
- The password is stored in encrypted form in the database using bcrypt

Result Grid						Filter Rows:	Export:	Wrap Cell Content:
	emp_id	first_name	last_name	email	password			
▶	1	Sam	Rogers	samrogers@gmail.com	\$2b\$10\$pyGd8rQV12OM6XeTGsdEWuqRI/IZcr			
	2	Elon	Musk	elonmusk@gmail.com	\$2b\$10\$eLD9pL1uHGzyve0etI4uJetCqguM1En			
	3	Jack	Ryan	jackryan@gmail.com	\$2b\$10\$EYIJmg2BMPCOEnM4mL30zeN6Qb4/F			
	4	Robert	Yen	robertyen@gmail.com	\$2b\$10\$5WdFoandWjfZ4pEeKAhEqOeUML3BJ			
	5	Brian	Rogers	brianrogers@gmail.com	\$2b\$10\$ArbirY/hCMoaeK2e2OUvqOlynLXhwiH			
	7	Emma	Bryan	emmabryan@gmail.com	\$2b\$10\$s0HhZ7ezcgvsEB0C0UGJD.BQnOLTbR			

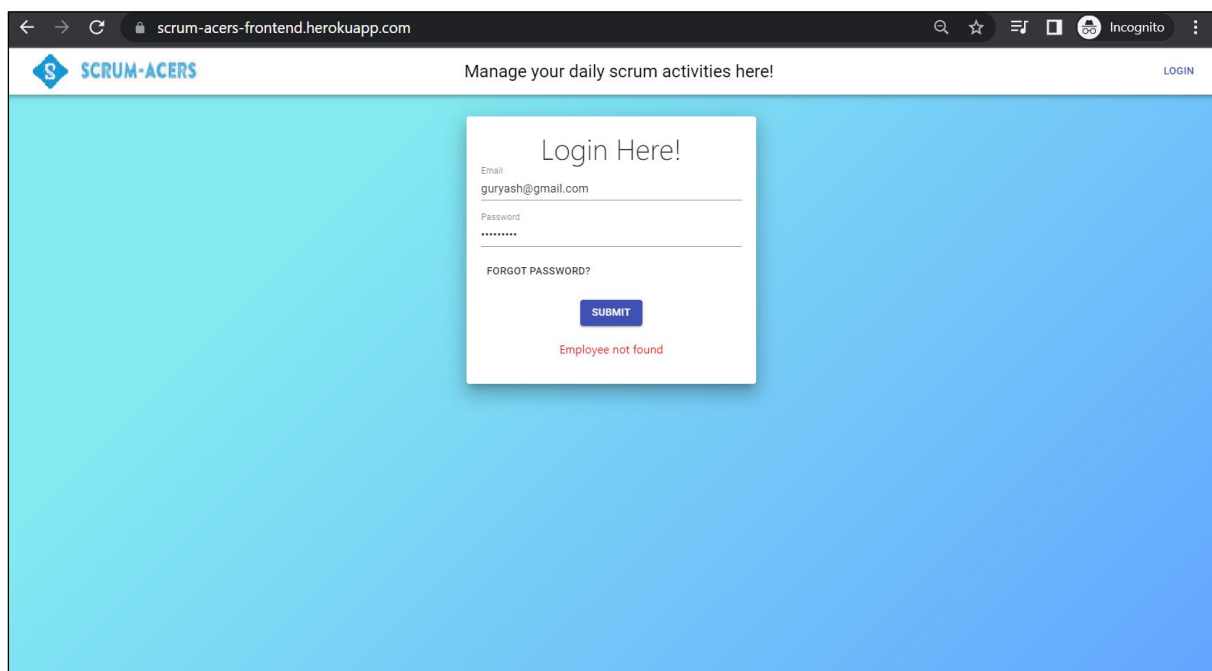
Figure 1: Screenshot of encrypted password in database

Figure 2: Screenshot of Login Page of Scrum Acers

Figure 3: Login Page Email Validation



*Figure 4: Invalid Password Validation*



*Figure 5: Validation if Employee does not exist*

## **Feature 2:- Daily Scrum form**

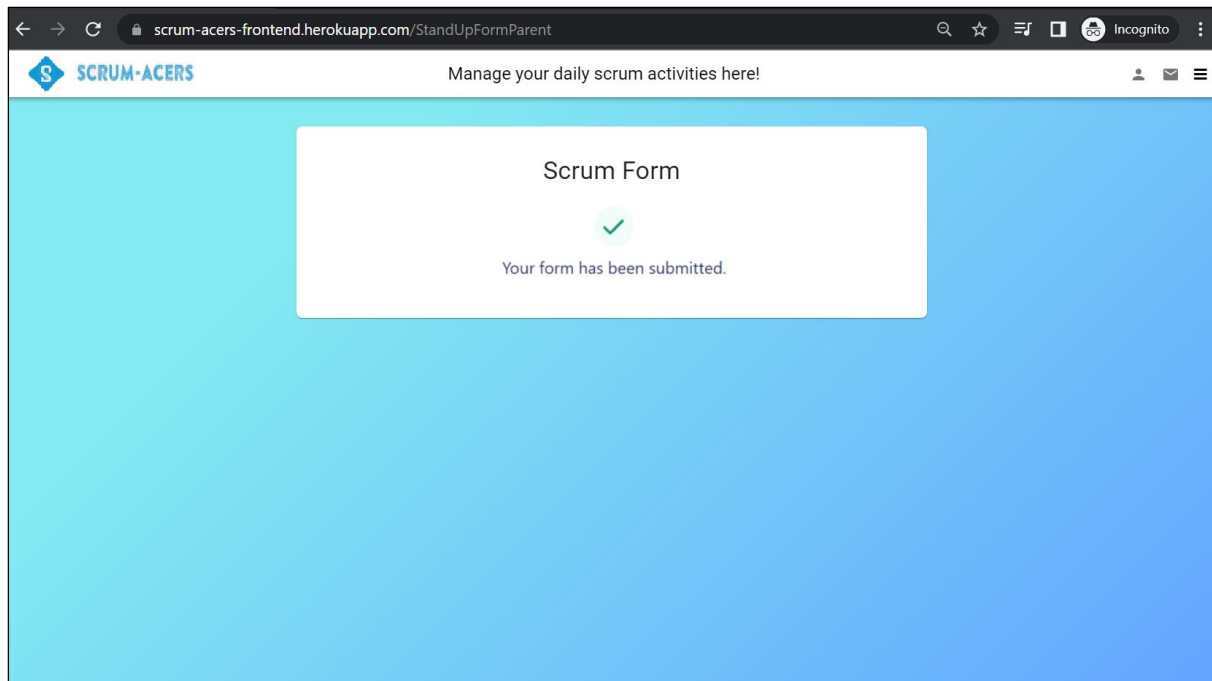
The employees need to fill a stand up form daily so that the updates are floated within the team. Also, it reduces the need of daily stand up meetings.

- Each employee needs to fill the daily stand-up form which consists of the following questions
  - Yesterday's Goals
  - Today's Goals

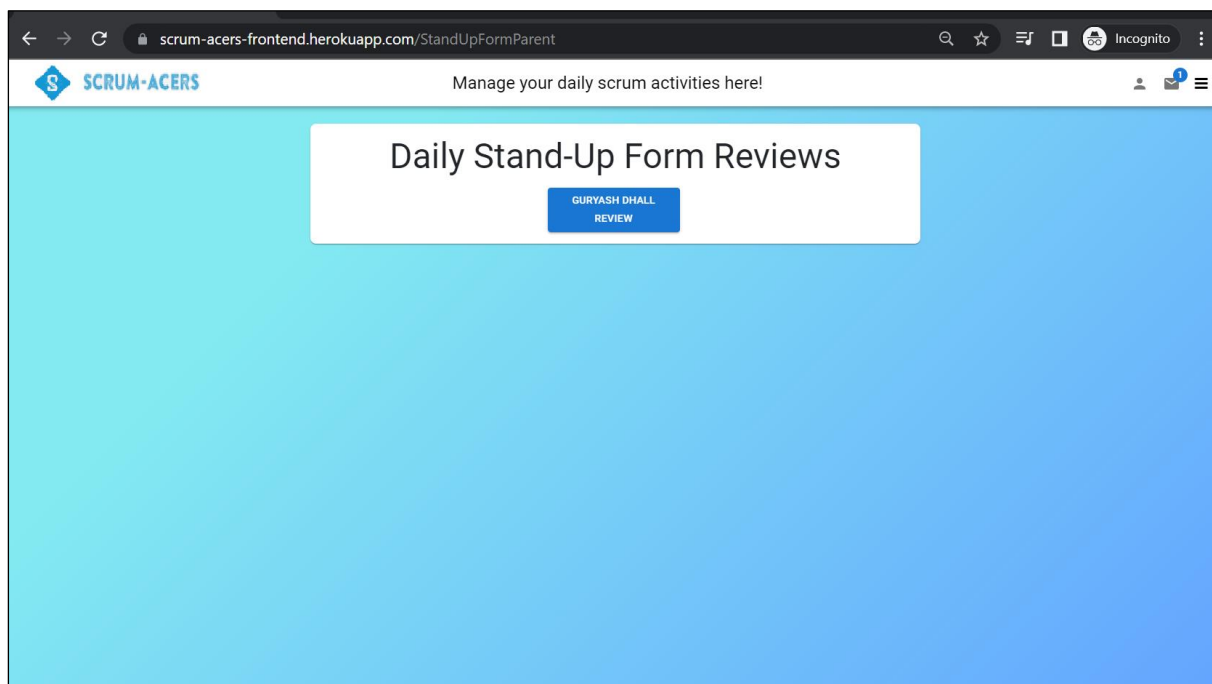
- Challenges Faced
- Blockers if any
- Employee can fill up the stand-up form only once in a day, if the person tries to fill the form again then it will display “Your form has been submitted”
- Team Lead would be able to view the form filled by all team members
- If an employee adds a blocker , a notification would be sent to all team members

*Figure 6 : Daily Stand Up Form Page*

*Figure 7 : Daily Stand Up Form after it is filled by an employee*



*Figure 8: After Scrum Form is submitted by an employee*



*Figure 9 : Manager View for stand up form*

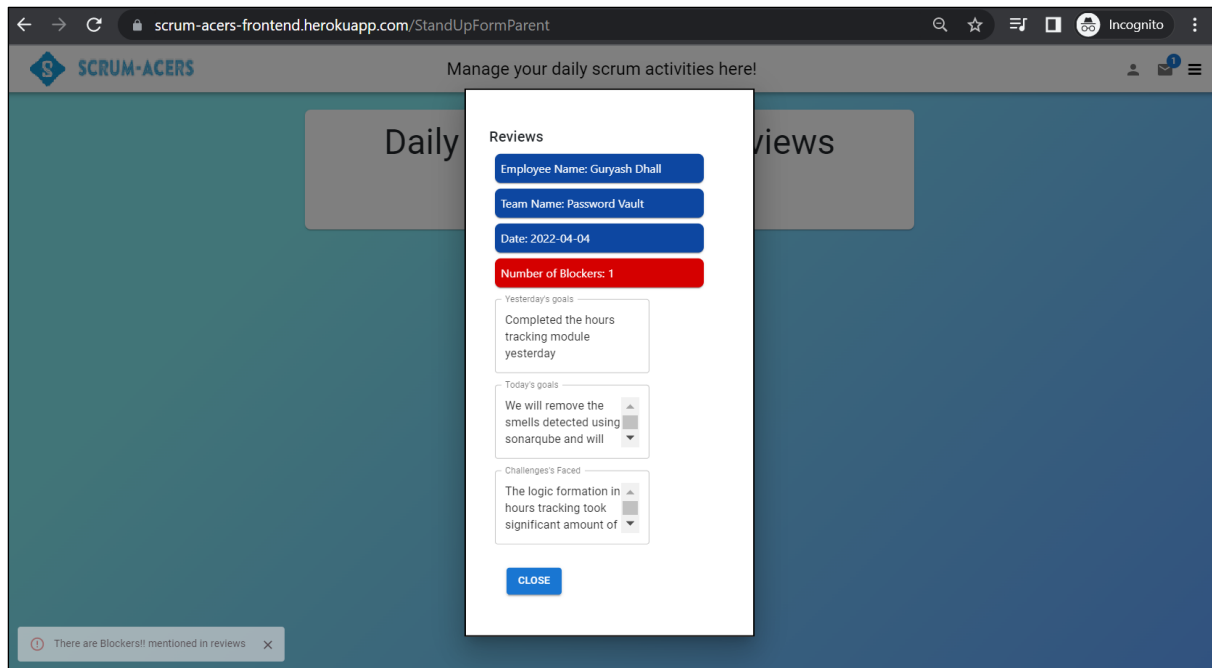


Figure 10 : Manager View for stand up form

### **Feature 3 : Leave Management Module**

This feature aids all the employees to apply for a leave and manager of that employee can approve or reject the leaves.

- The Employees can apply for a leave in the 'Raise Leave Request' tab on load of which the employee's manager details are fetched
- The Employee can view the leaves raised and it's status in the 'View Raised Requests' tab
- Manager has an option to view the leaves raised by the team members
- If the manager accepts the leave request, leaves are debited from the employee's account

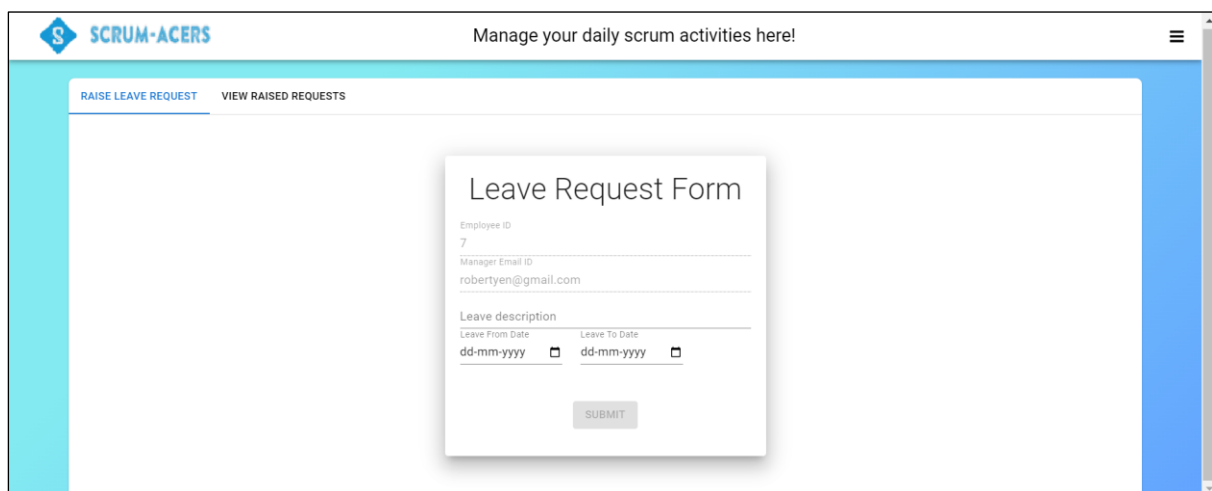


Figure 11: Leave Request Form for Employees

The screenshot shows a web browser window with the URL `scrum-acers-frontend.herokuapp.com/Leaves`. The page header includes the SCRUM-ACERS logo and the text "Manage your daily scrum activities here!". Below the header, there are two tabs: "RAISE LEAVE REQUEST" (active) and "VIEW RAISED REQUESTS". The main content area displays a "Leave Request Form" with the following fields:

- Employee ID: 30
- Manager Email ID: sophiabridget@gmail.com
- Leave description: Going to attend Parvish marriage
- Leave From Date: 19-04-2022
- Leave To Date: 22-04-2022

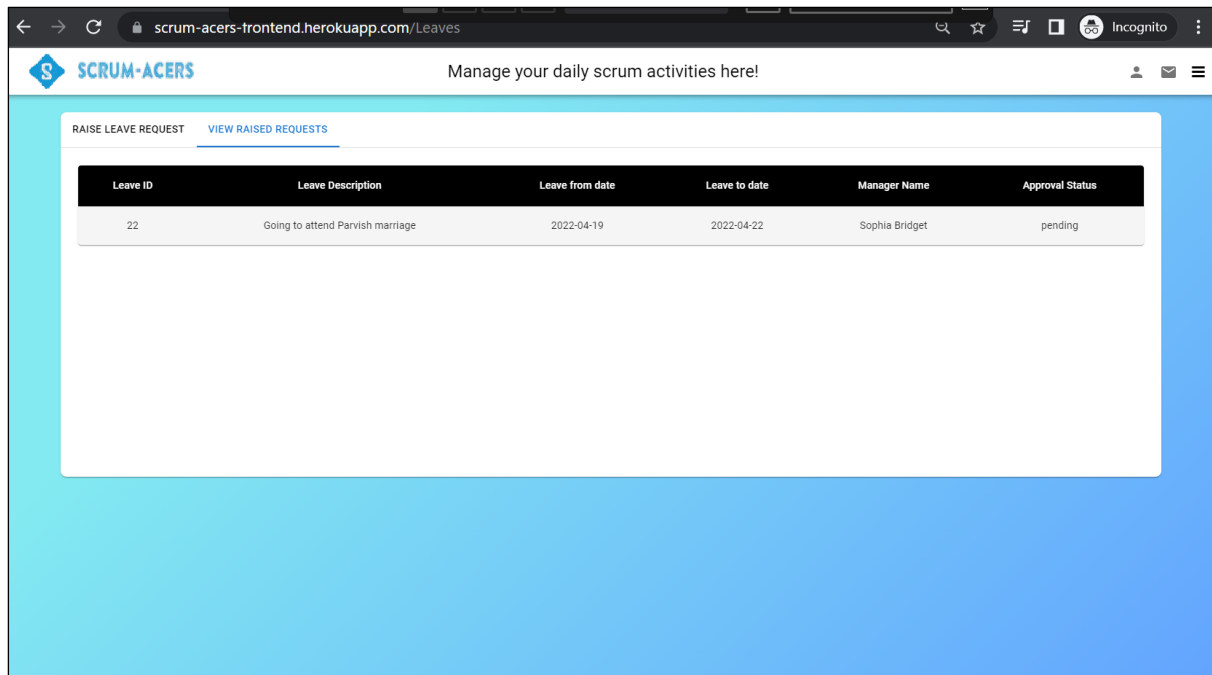
A blue "SUBMIT" button is located at the bottom of the form.

Figure 12: Leave Request Form after it is filled by an Employee

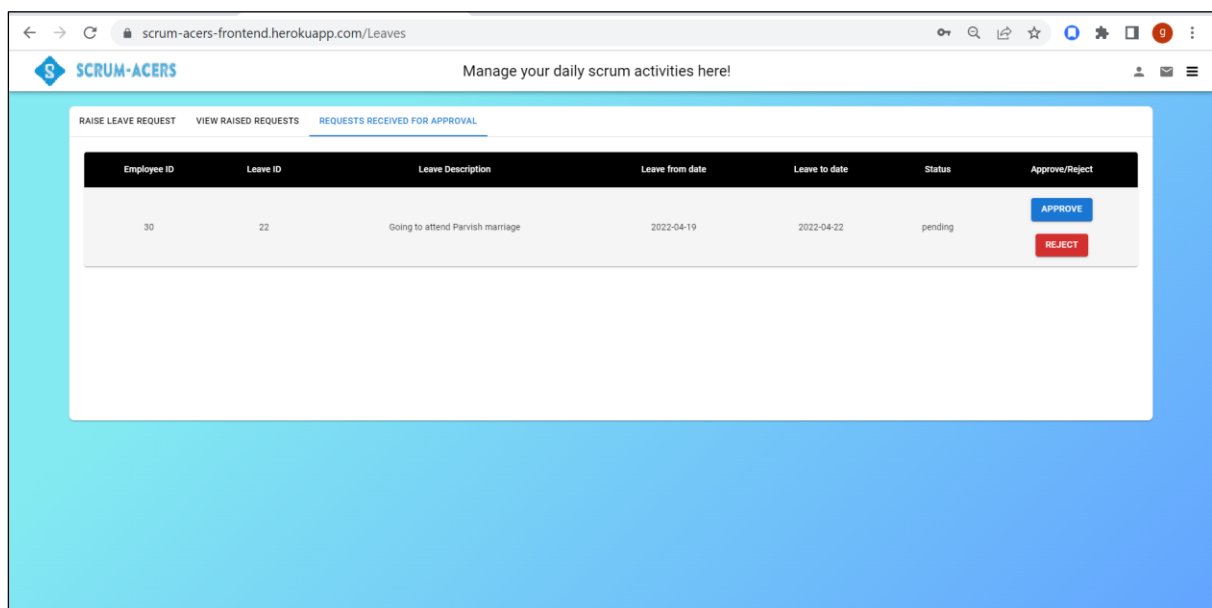
The screenshot shows the same web browser window as Figure 12, but the "SUBMIT" button is now disabled (greyed out). Below the form, a green message "Leave Request Raised Successfully" is displayed. At the bottom of the page, a green notification banner with a checkmark icon and the text "Leave Request Raised" is visible.

Figure 13: Leave Request after raising the request





*Figure 14: View Raised Requests Tab for Employee*



*Figure 15: Manager's View for the Leave Request's Recieved*

#### **Feature 4 : Badging**

This feature is designed for appreciating individual efforts and motivate the employees.

- Manager and Team Lead have the option to provide the badges to the employees
- The badges are displayed on the profile page of each employees
- Manager can add/update the badges provided to the employees

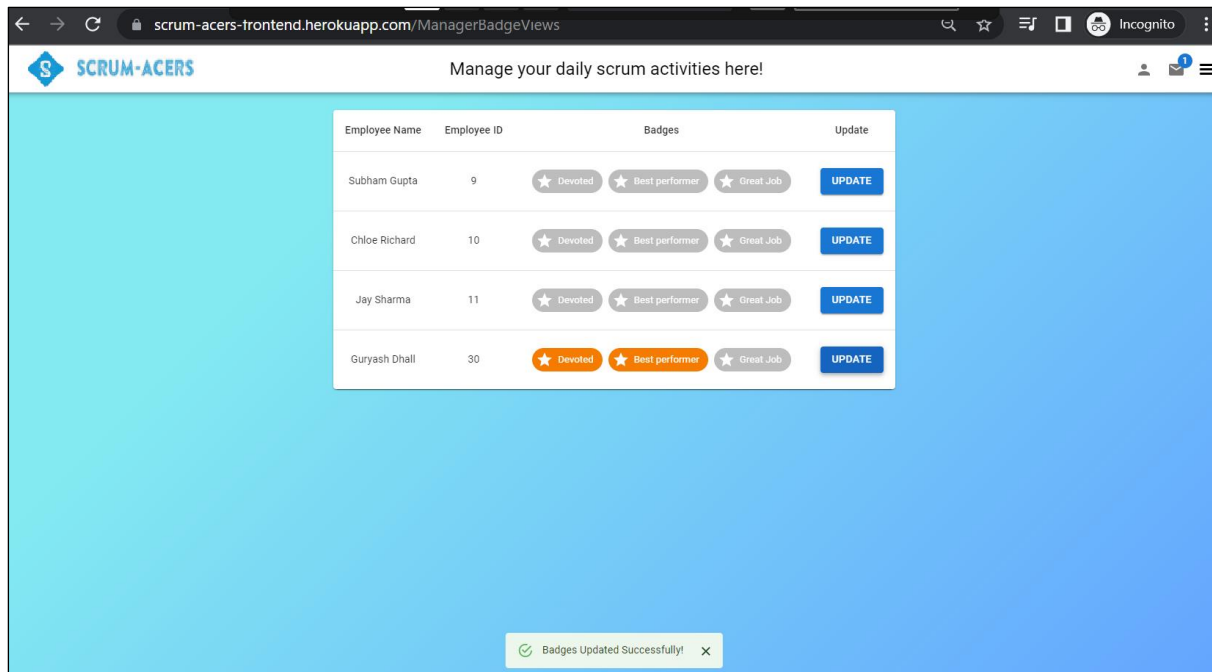


Figure 16: Manager's View after updating the employee badges

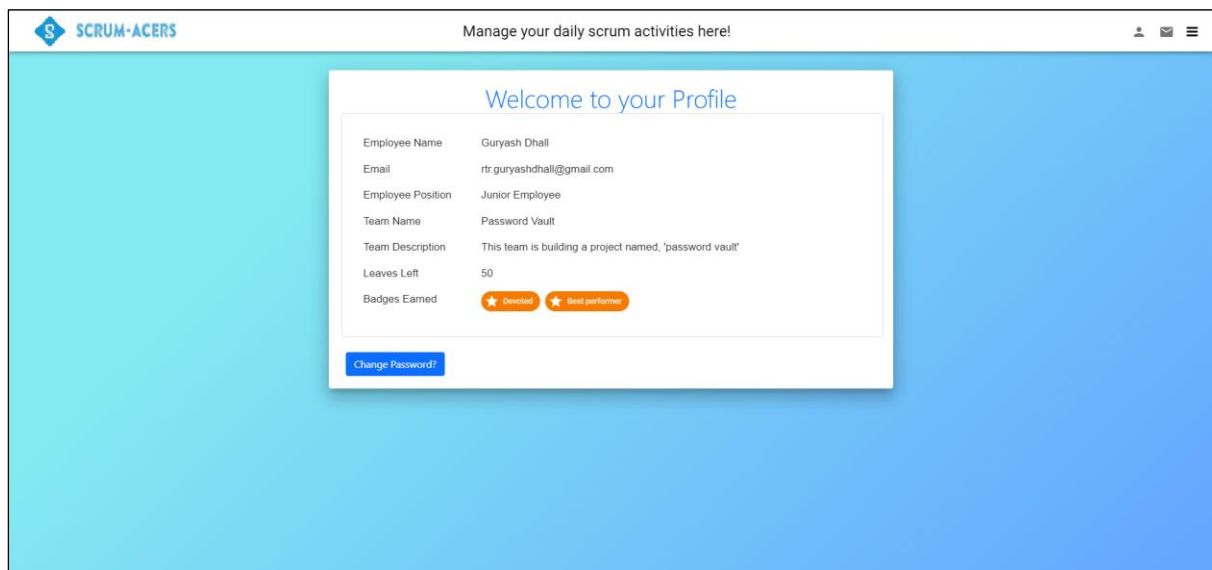
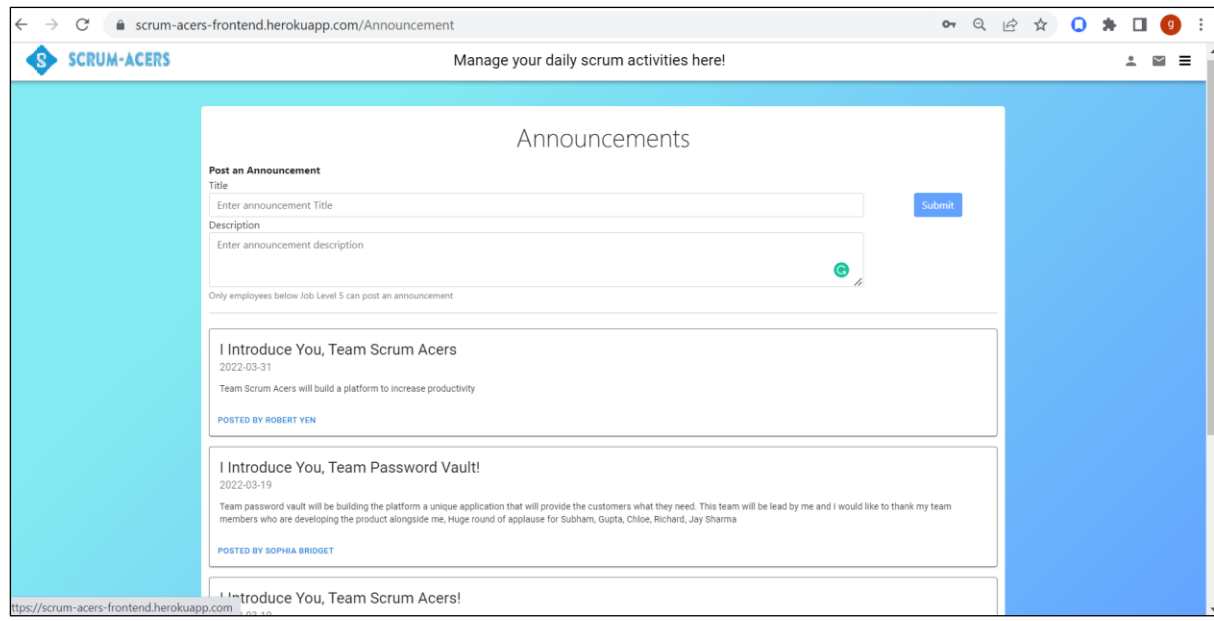


Figure 17: Badges updated in the profile

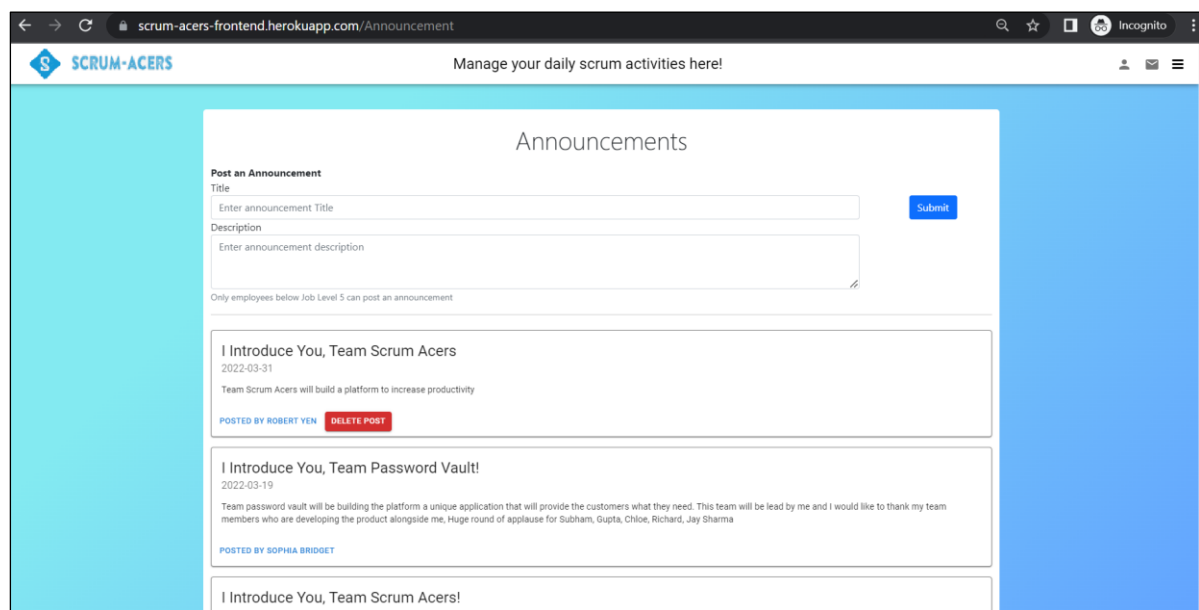
## **Feature 5 : Announcement**

This is for the general announcements and updates within the organization

- This page would be visible to all the employees
- Employee level less than 5 (Manager's and above) only have the option of creating an announcement
- The manager who has created the announcement has the option to delete it



*Figure 18: Announcement Page View for Employees*



*Figure 19: Announcement Page View for Manager (Manager can add/delete announcement)*

## **Feature 6 : Survey**

This is designed to take informal weekly survey from the employees on how the team is performing and hence appropriate actions can be taken from the response of the survey

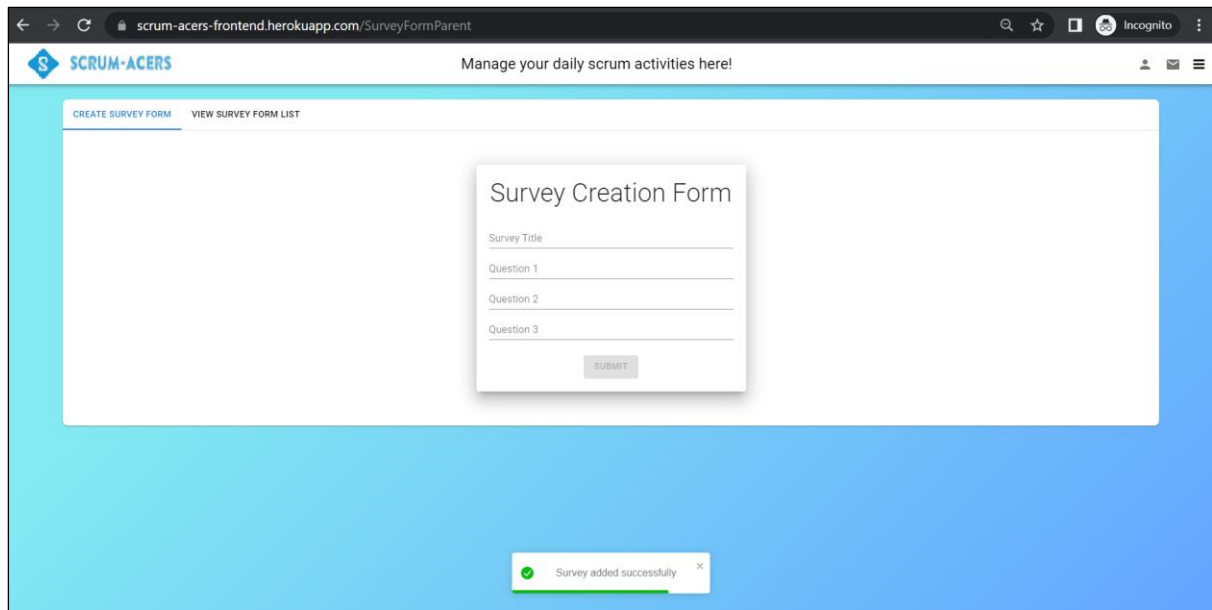
- Manger/Team Lead has the option of creating a survey
- The survey form can have total 3 questions
- The validity of each survey is one week
- The employees within the team will have the option to fill up the survey
- Manager will be able to see the list of employees who have filed the survey
- Manager will be able to see the responses which are filled by employees

The screenshot shows a web browser window with the URL `scrum-acers-frontend.herokuapp.com/SurveyFormParent`. The page header includes the "SCRUM-ACERS" logo and the text "Manage your daily scrum activities here!". Below the header, there are two tabs: "CREATE SURVEY FORM" (active) and "VIEW SURVEY FORM LIST". The main content area displays a "Survey Creation Form" modal. This form contains the following fields: "Survey Title", "Question 1", "Question 2", and "Question 3". A "SUBMIT" button is located at the bottom of the form.

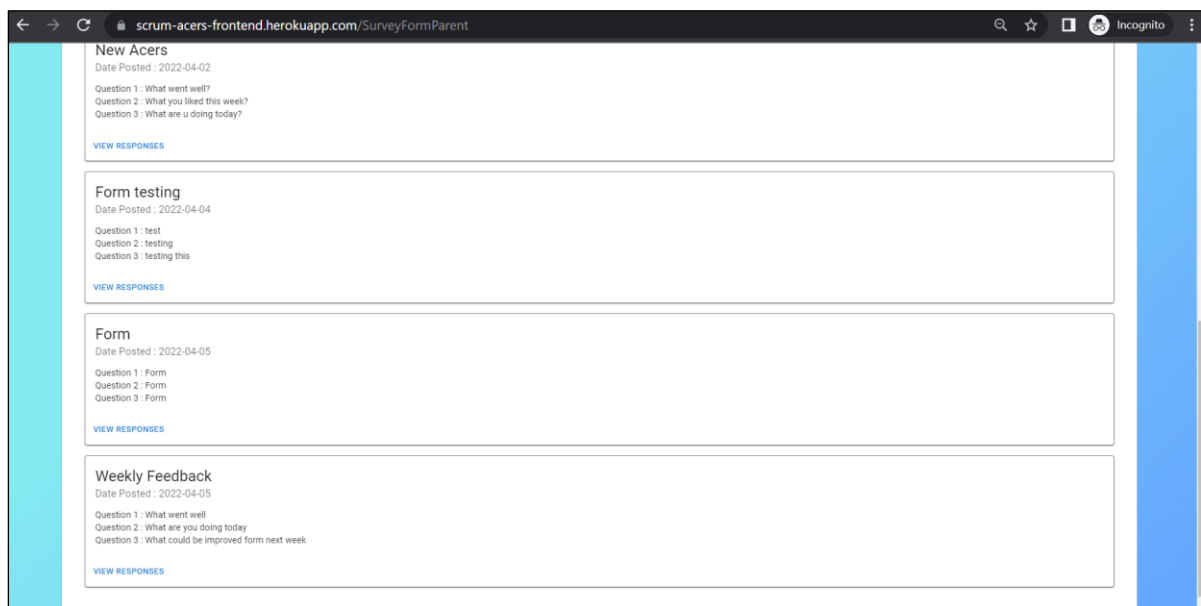
*Figure 20: Survey Creation Form (from Manager's View)*

The screenshot shows the same web browser window as Figure 20, but the "Survey Creation Form" modal is now filled out. The "Survey Title" field contains the text "Weekly Feedback". The "Question 1" field contains "What went well", "Question 2" contains "What are you doing today", and "Question 3" contains "What could be improved form next week". The "SUBMIT" button is now blue and is located at the bottom of the form.

*Figure 21: Survey Filled by Manager*



*Figure 22: Survey form submitted successfully by Manager*



*Figure 23: Survey responses as viewed by Manager*

The screenshot shows a web browser window with the URL `scrum-acers-frontend.herokuapp.com/SurveyFormParent`. The page header includes the "SCRUM-ACERS" logo and the text "Manage your daily scrum activities here!". Below the header, there is a "SURVEY FORMS" section. This section contains two survey forms:

- FORM**  
Date Posted : 2022-04-05  
Question 1 : Form  
Question 2 : Form  
Question 3 : Form
- WEEKLY FEEDBACK**  
Date Posted : 2022-04-05  
Question 1 : What went well  
Question 2 : What are you doing today  
Question 3 : What could be improved form next week

Figure 24: Survey form as viewed by employee

This screenshot shows the same web browser window as Figure 24, but with a modal form overlay. The modal form is titled "Survey Form" and contains three input fields with the following labels:

- What went well
- What are you doing today
- What could be improved form next week

At the bottom of the modal form, there are two buttons: "SUBMIT" and "CLOSE". The background of the page is dimmed to show the modal form.

Figure 25: Survey form as viewed by employee

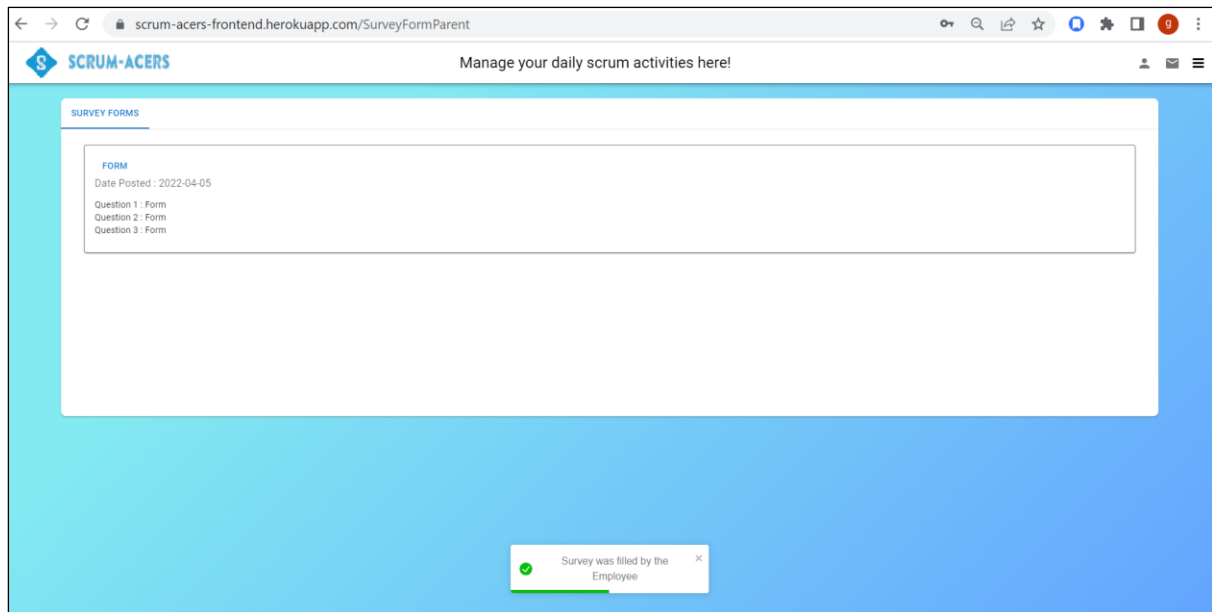


Figure 26: Survey form submitted by employee

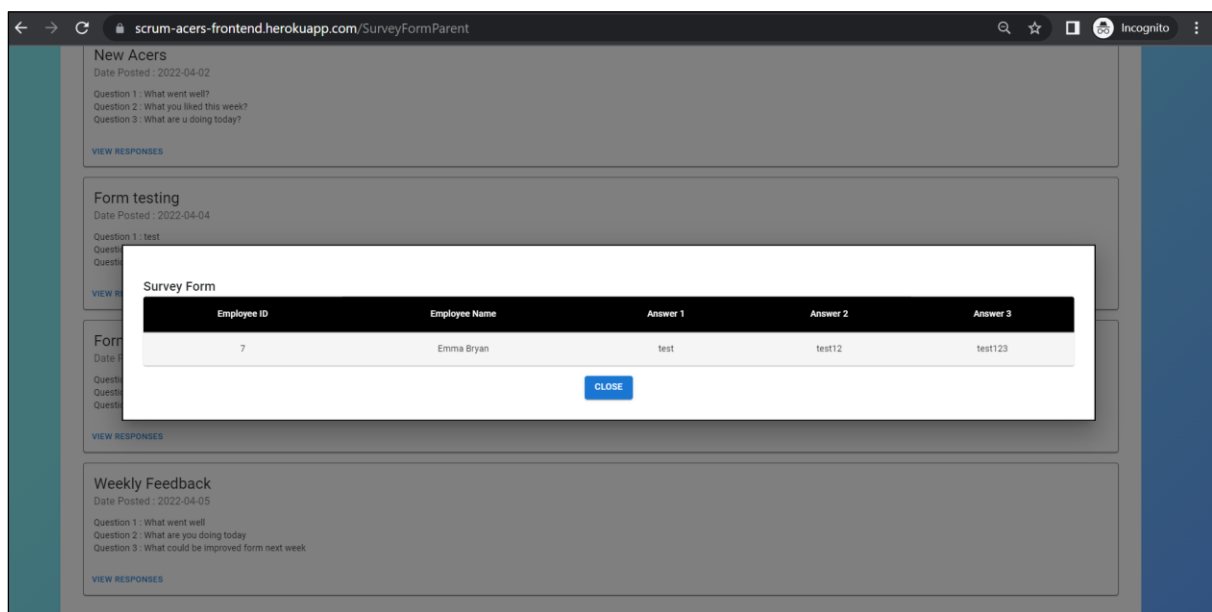


Figure 27: Survey form responses as viewed by manager

## **Feature 7 : Notification**

Notification module is built for employees to get notified about the blockers.

- The employee has the option of adding number of blockers when they fill the daily scrum form
- Notification is sent to all members of the team that a specific employee is facing these number of blockers

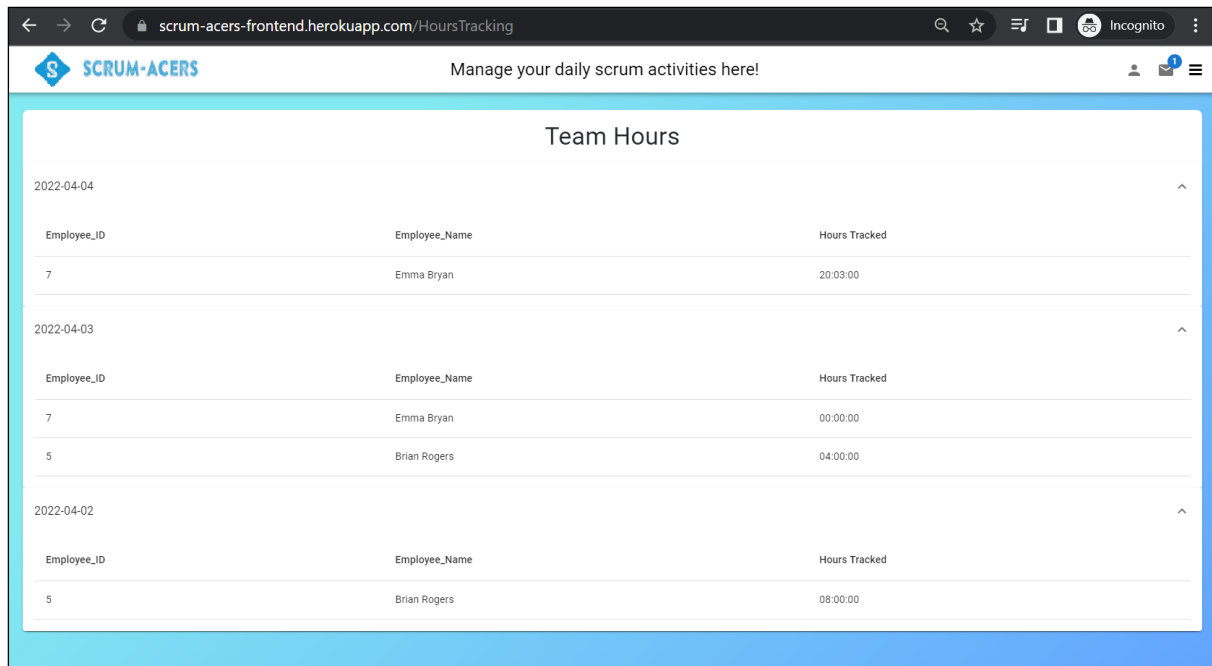
*Figure 28: Stand up form filled by an employee*

*Figure 29: Blocker notification sent to all team members*

## **Feature 8 : Hours Tracking**

- The team lead would be able to track the number of hours there teammates have worked for in a day
- The number of hours for each employee are recorded based on the login and logout time



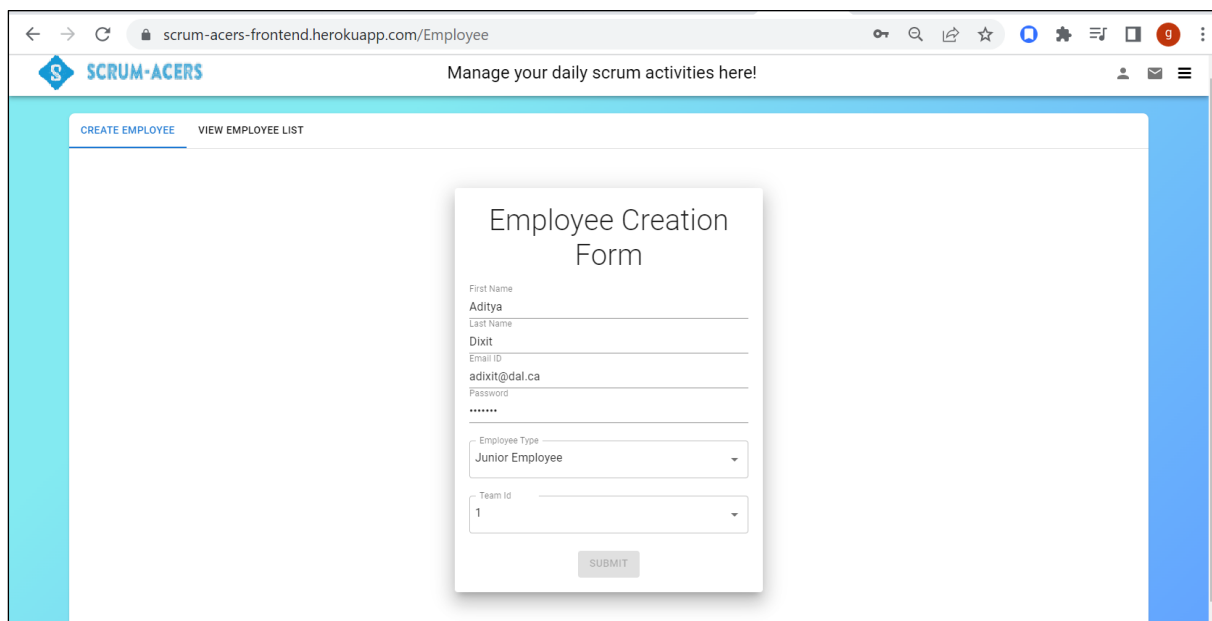


Team Hours		
2022-04-04		
Employee_ID	Employee_Name	Hours Tracked
7	Emma Bryan	20:03:00
2022-04-03		
Employee_ID	Employee_Name	Hours Tracked
7	Emma Bryan	00:00:00
5	Brian Rogers	04:00:00
2022-04-02		
Employee_ID	Employee_Name	Hours Tracked
5	Brian Rogers	08:00:00

*Figure 30: Team hours( Manager's view)*

## **Feature 9 : User Creation and Deletion**

The company owner , HR and the manager have the option to create new employees.



CREATE EMPLOYEE VIEW EMPLOYEE LIST

### Employee Creation Form

First Name  
Aditya

Last Name  
Dixit

Email ID  
adixit@dal.ca

Password  
\*\*\*\*\*

Employee Type  
Junior Employee

Team Id  
1

SUBMIT

*Figure 31: Employee Creation Form*

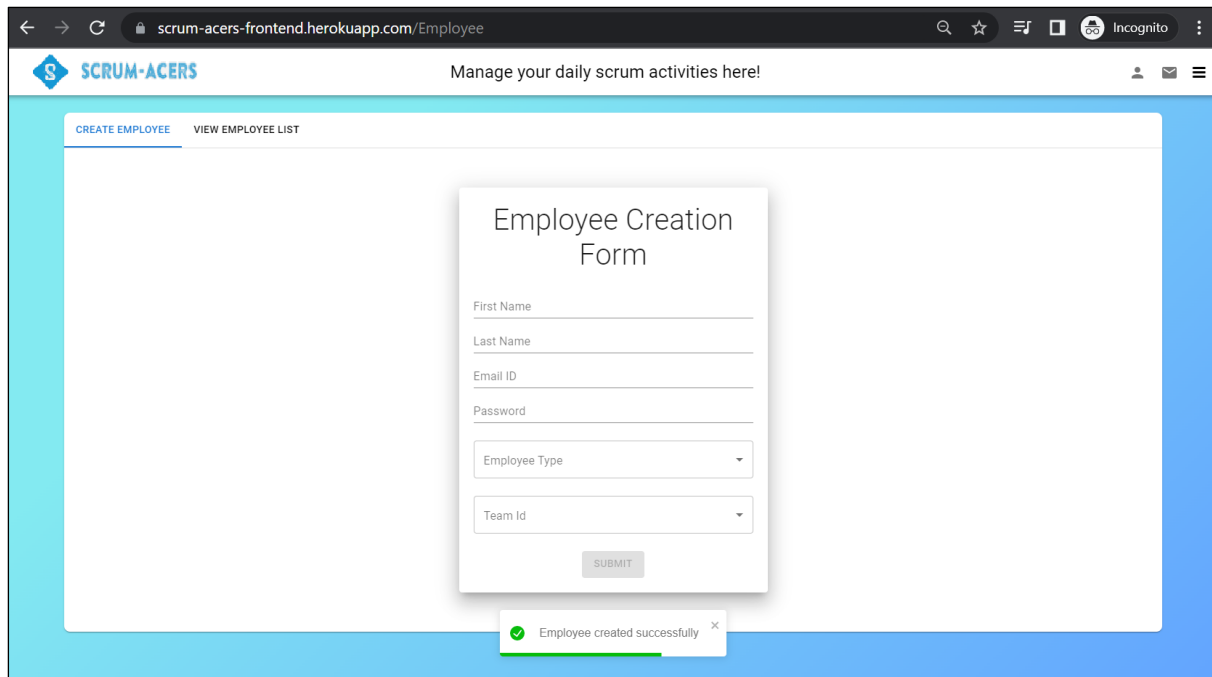


Figure 32 : After the employee is created successfully

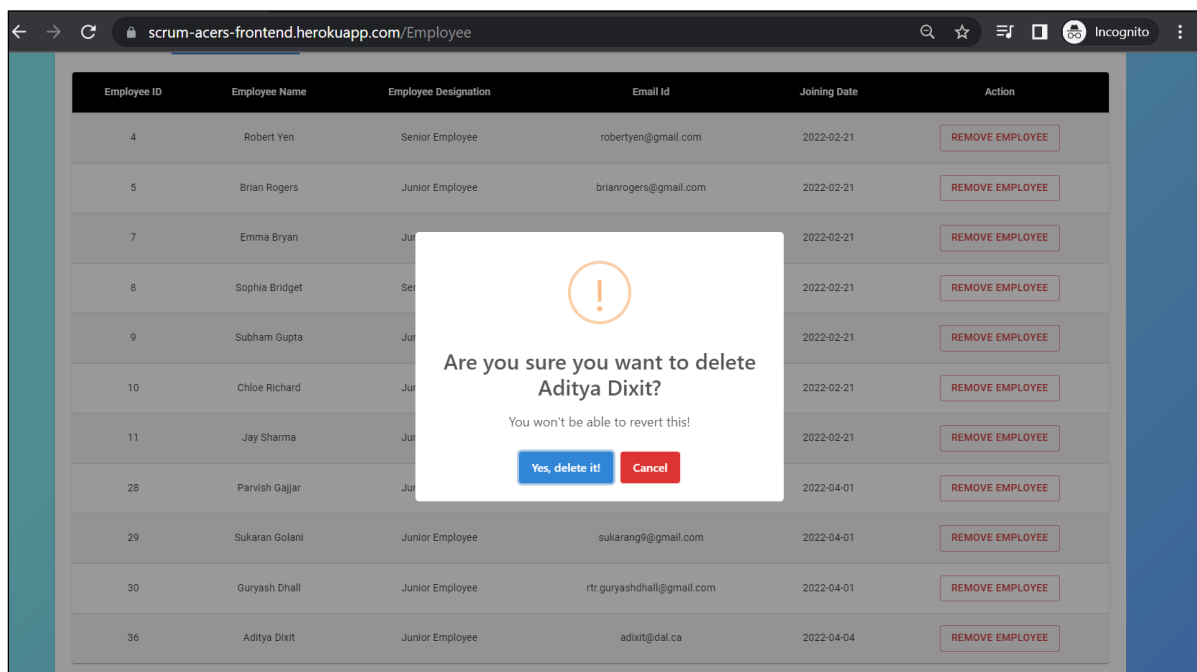


Figure 33 : When the mamangement tries to delete the employee

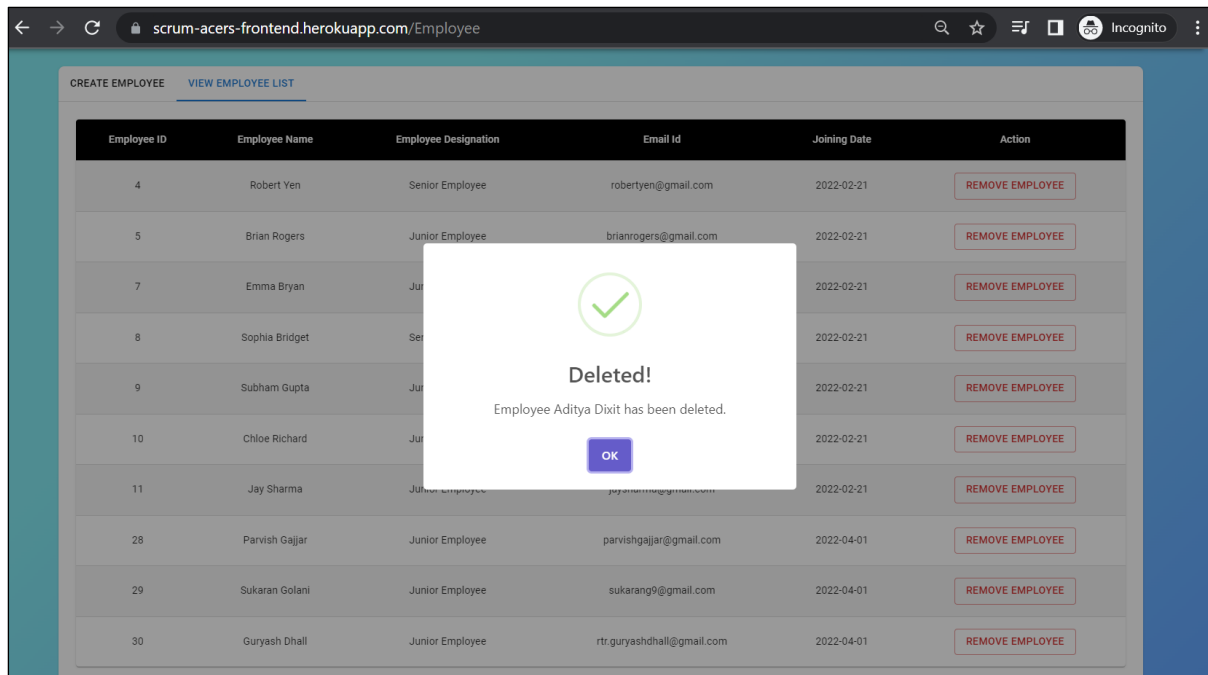


Figure 34 : After the employee is deleted successfully

## **Feature 10: User Profile View**

User profile view is where users can see their information and view badges that are assigned to them by their respective managers.

- The user can view their profile by two different ways: wither clicking on the profile avatar from navbar or from the side menu where it is labelled as “My Profile”.
- This view has details like the team to which employee belongs, the number of leave application left for the employee, employee’s personal details and the badges earned by the employee as assigned by their respective manager.

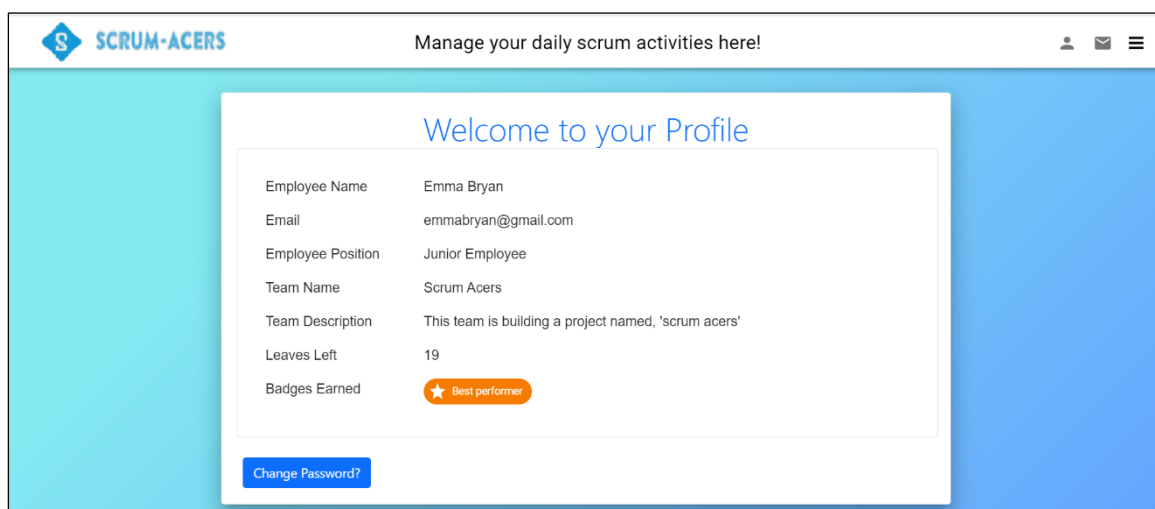
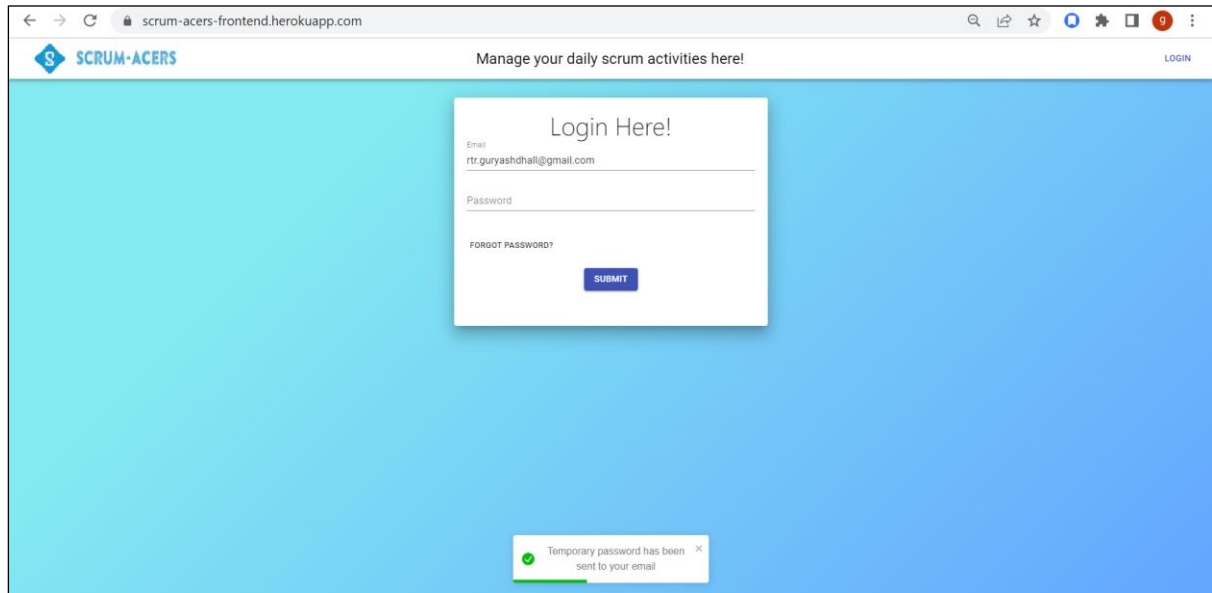


Figure 35: After the employee is deleted successfully

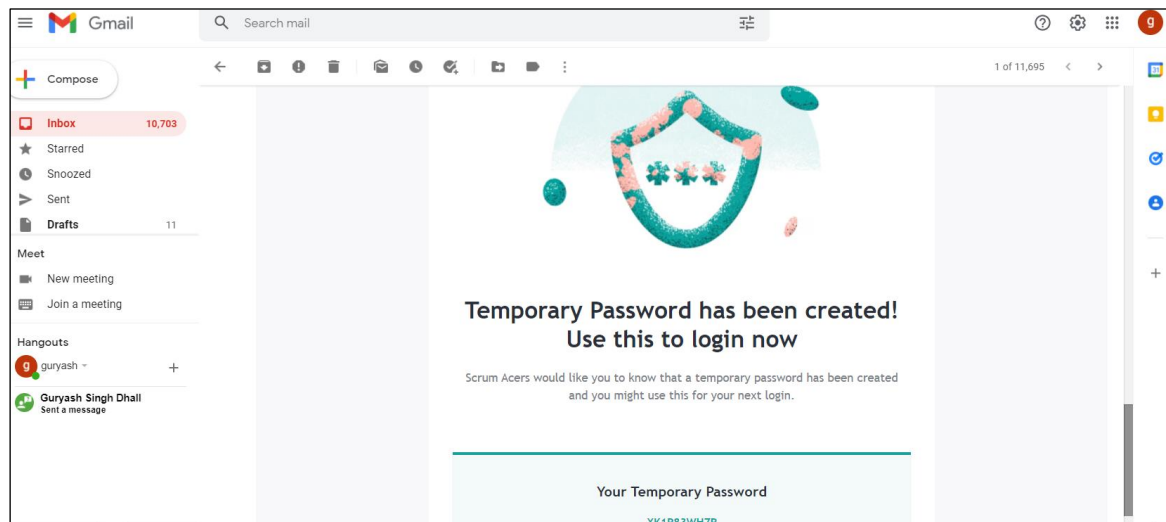
## **Feature 11: Managing User Passwords**

### **1) Forgot Password**

When the user forgets their password, one can click on the forgot password button, and the user is required to enter their email and an email with random password is sent, which can be used again by the user to re-login.



*Figure 36: When the user clicks on forgot password*

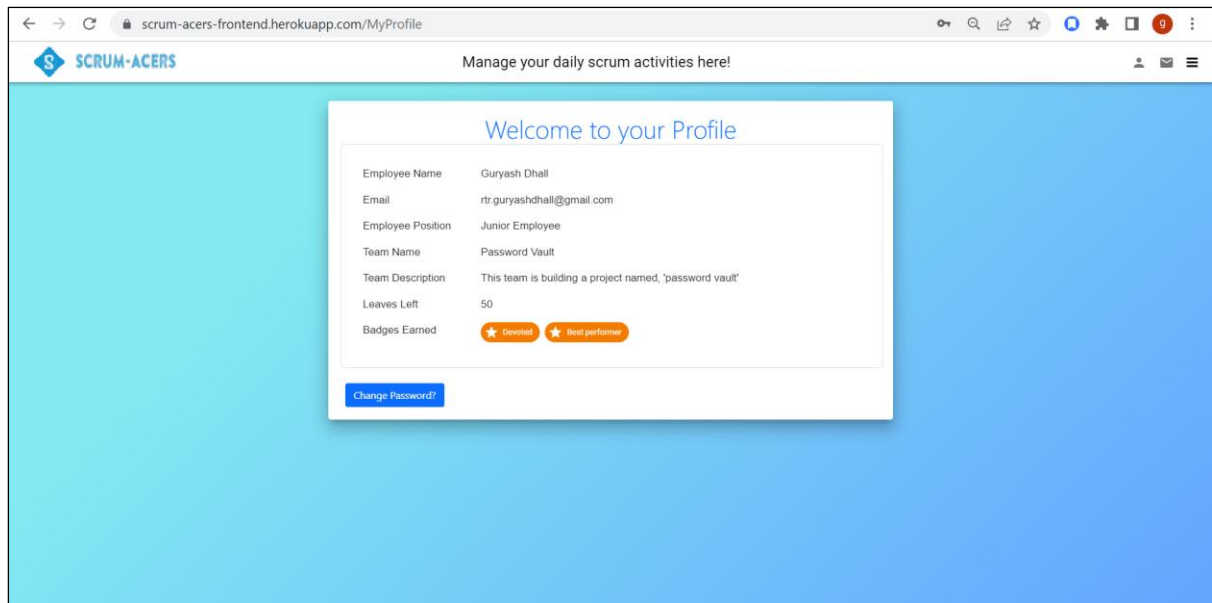


*Figure 37: Temporary password has been sent to the email*

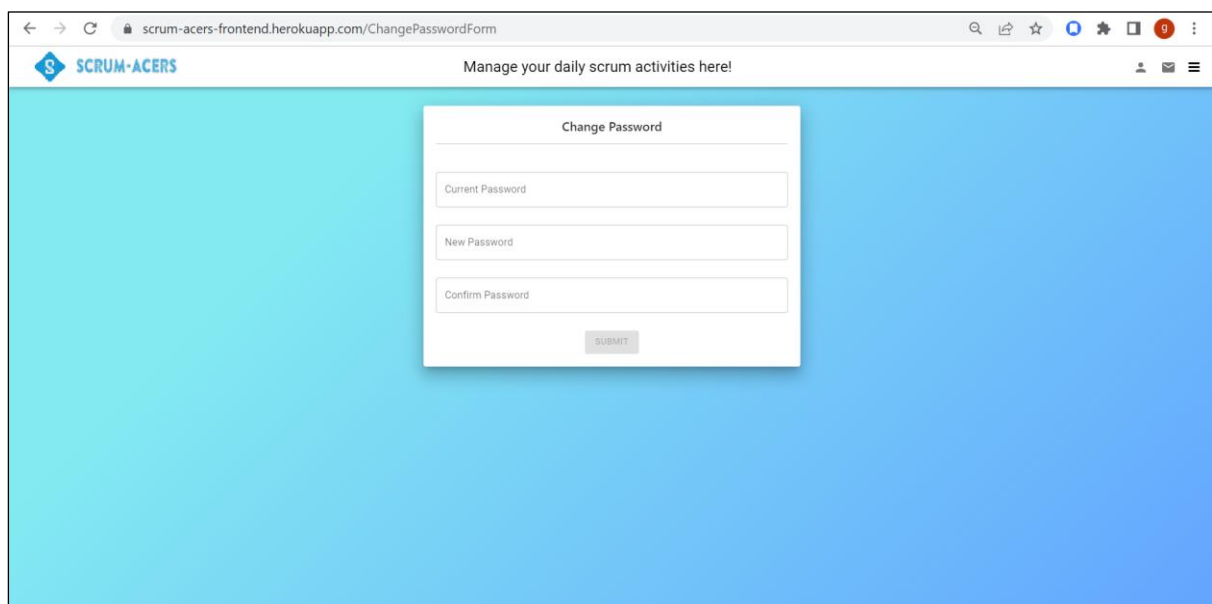
### **2) Change Password**

User has the option to change the login password from my profile page.

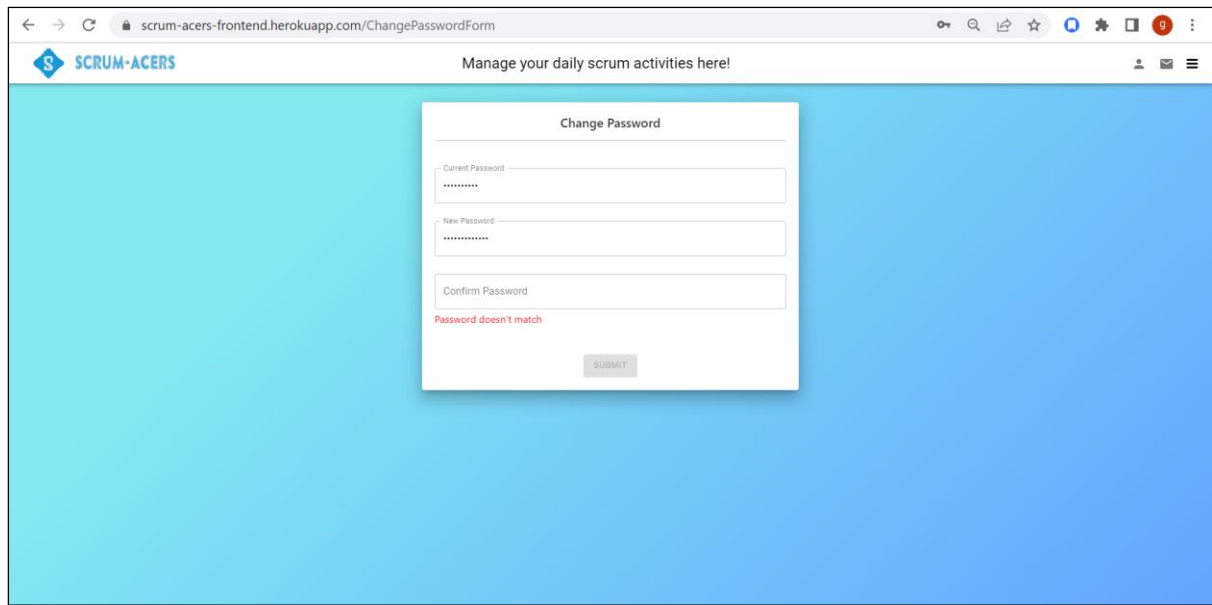
- Old password is authenticated
- Password validation is done for New Passwords



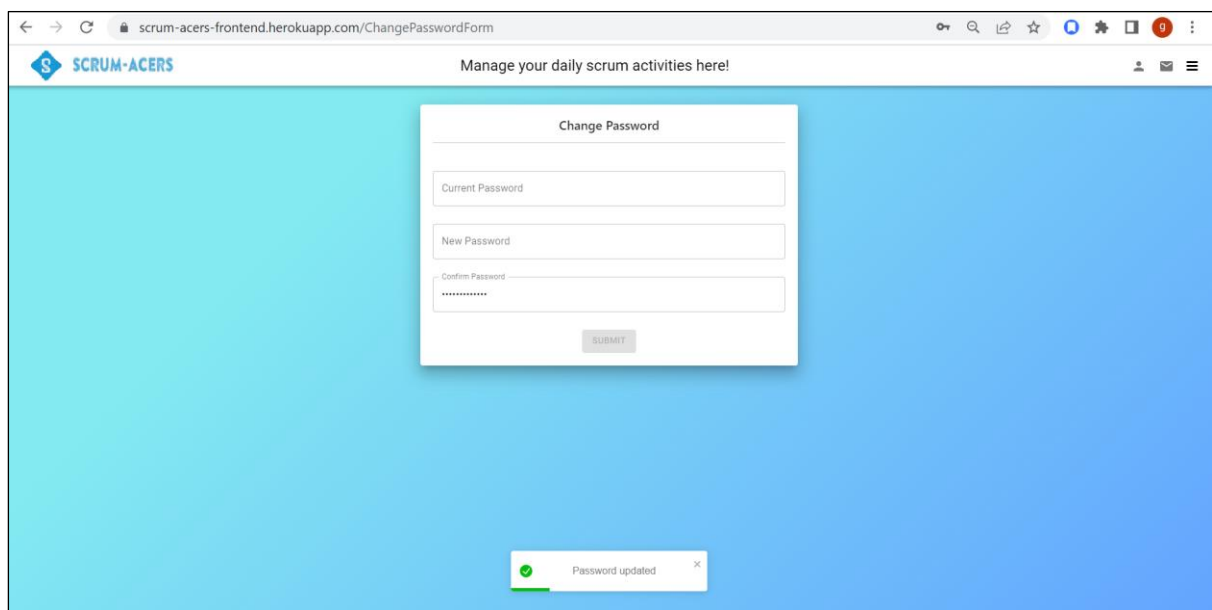
*Figure 38: Change password button on “My Profile” of employees*



*Figure 39: Change password page for employees*



*Figure 40: Validation for Passwords*



*Figure 41: Passwords updated successfully*

# Database Entity Relationship Diagram

