

Software Project Lab - 02

Presented By

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Supervised By

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Institute of Information Technology
University of Dhaka

URL: https://github.com/UmmeKulsumTumpa/SPL_02.git
https://github.com/Trina-SE/SPL_02.git

Requirement Collection Notes

Objective: To outline the requirements for CodeSphere, a new contest platform tailored for the IIT community, addressing the gaps left by existing solutions like VJudge.

Meeting Type: Virtual meeting

Attendees: Enthusiastic participants and contest organizer of IIT

Survey Questionnaires:

- What specific challenges do IIT problem setters face when attempting to contribute to international platforms?
- How do existing platforms limit the type and scope of contests IIT organizers wish to hold?
- Can you provide examples of the type of custom problems IIT problem setters are interested in creating?

Analysis report

Key Issues Identified:

- Lack of Localized Problem Setting
- Limited Contest Customization on VJudge
- No Team Contest Support

Requirements Identified:

- User Authentication
- Team Management
- Custom Problem Setting
- Contest Organization
- Real-Time Leaderboards
- Educational Resources

Normal Requirements

The fundamental requirements for CodeSphere, derived from stakeholder meetings, include:

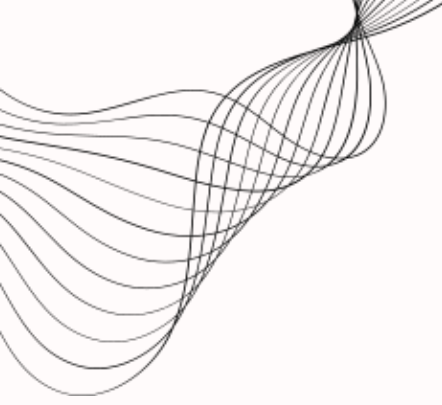
- **User Authentication**
- **Problem Submission and Management**
- **Contest Registration and Participation**
- **Real-Time Leaderboards**
- **User Profiles**

Expected Requirements

- **Intuitive User Interface**
- **Responsive Design**
- **Notification System**
- **Privacy Controls for User Profiles**
- **Dynamic Filtering in Problem Repository**
- **Real-time Feedback on Submissions**

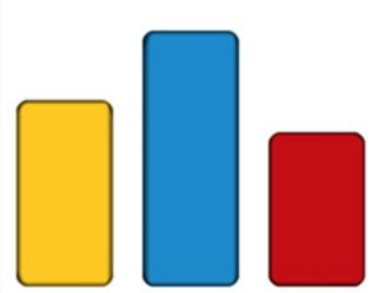
Exciting Requirements

- **Solution Visualization**
- **Custom Problem Settings**
- **Team Registration with unified team ID**

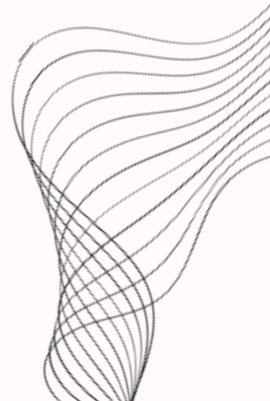


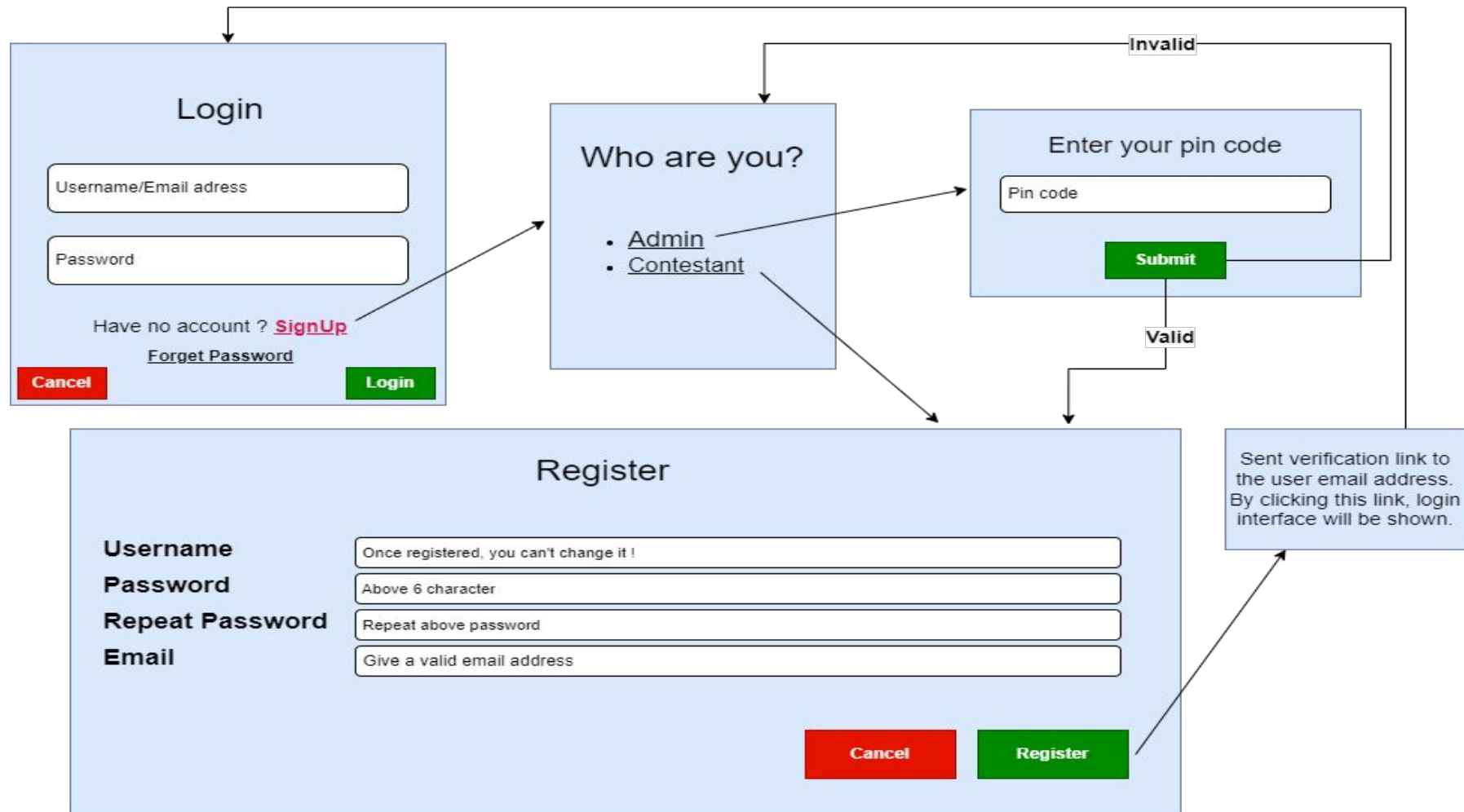
CodeSphere

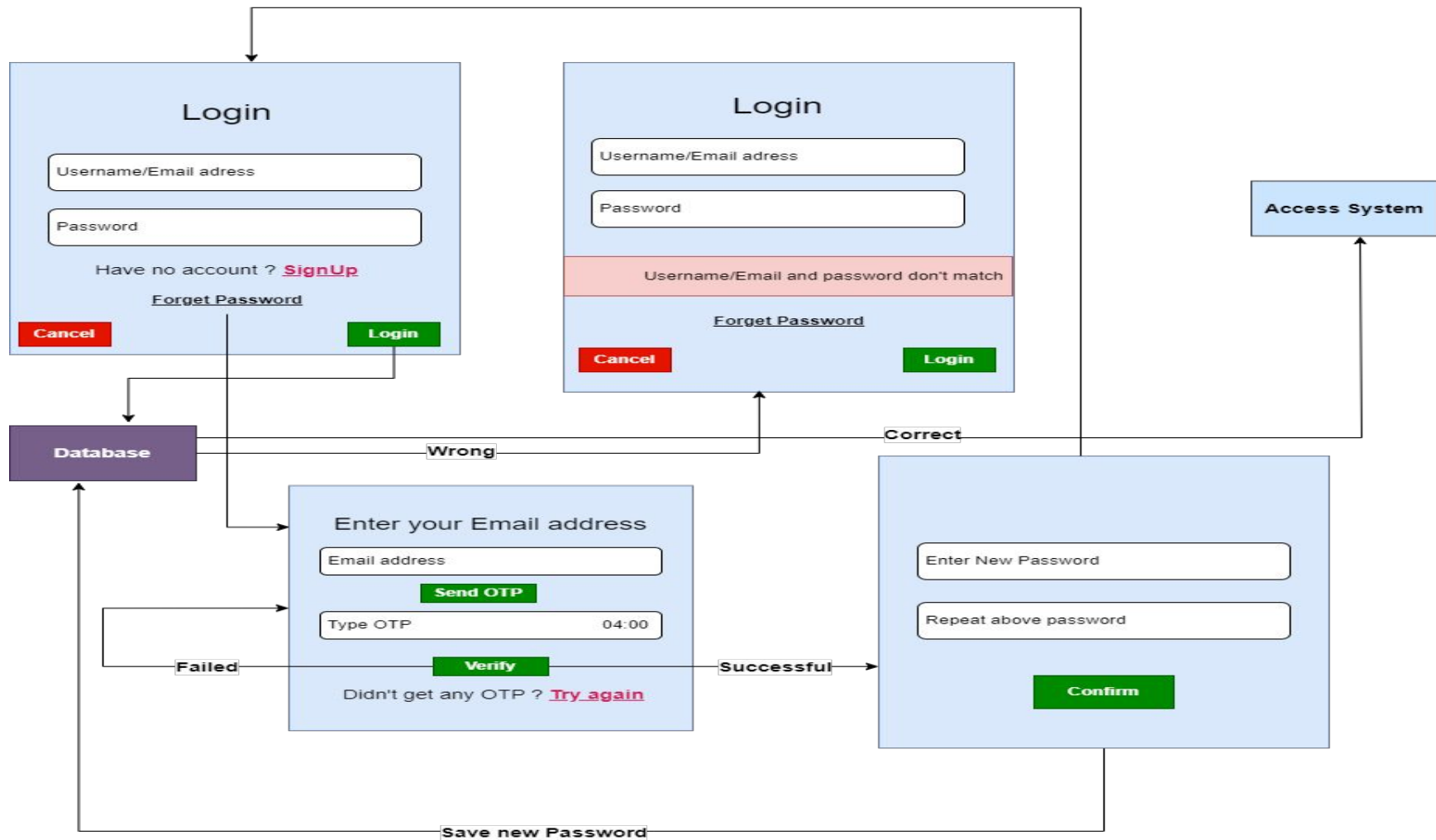
**A Comprehensive Contest and
Learning Platform for IIT**



Web Application







LOGO

CodeSphere - Competitive Programming & Learning Platform

**IIT
University of Dhaka**

HOME

Problem Repository

Contest

Knowledge Nexus

Notification

User Profile

About Us

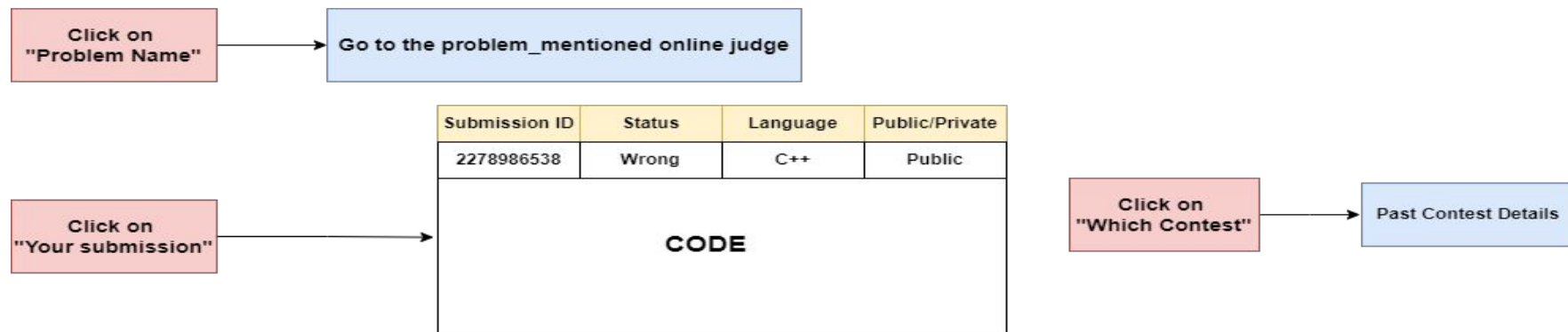
About CodeSphere

Contact us

Links, contact information

Logout

Problem Repository					Search
Online Judge	Problem Name	Your submission	Verdict	When	Which Contest
Codeforces	A-String_Task	2278986541	Accepted	3 hours ago	Beginner-level
LightOJ	Triangle	2278986538	Wrong	2 days ago	CSE-Contest1
CodeSphere	TryCatch	2278986530	Wrong	4 days ago	IIT-Contest1



Begin: 2023-01-02 22:00 EST

☆ Team Forming Contest 4 for ICPC '22

End: 2023-01-03 03:00 EST

Ended

Overview

Problem

Status

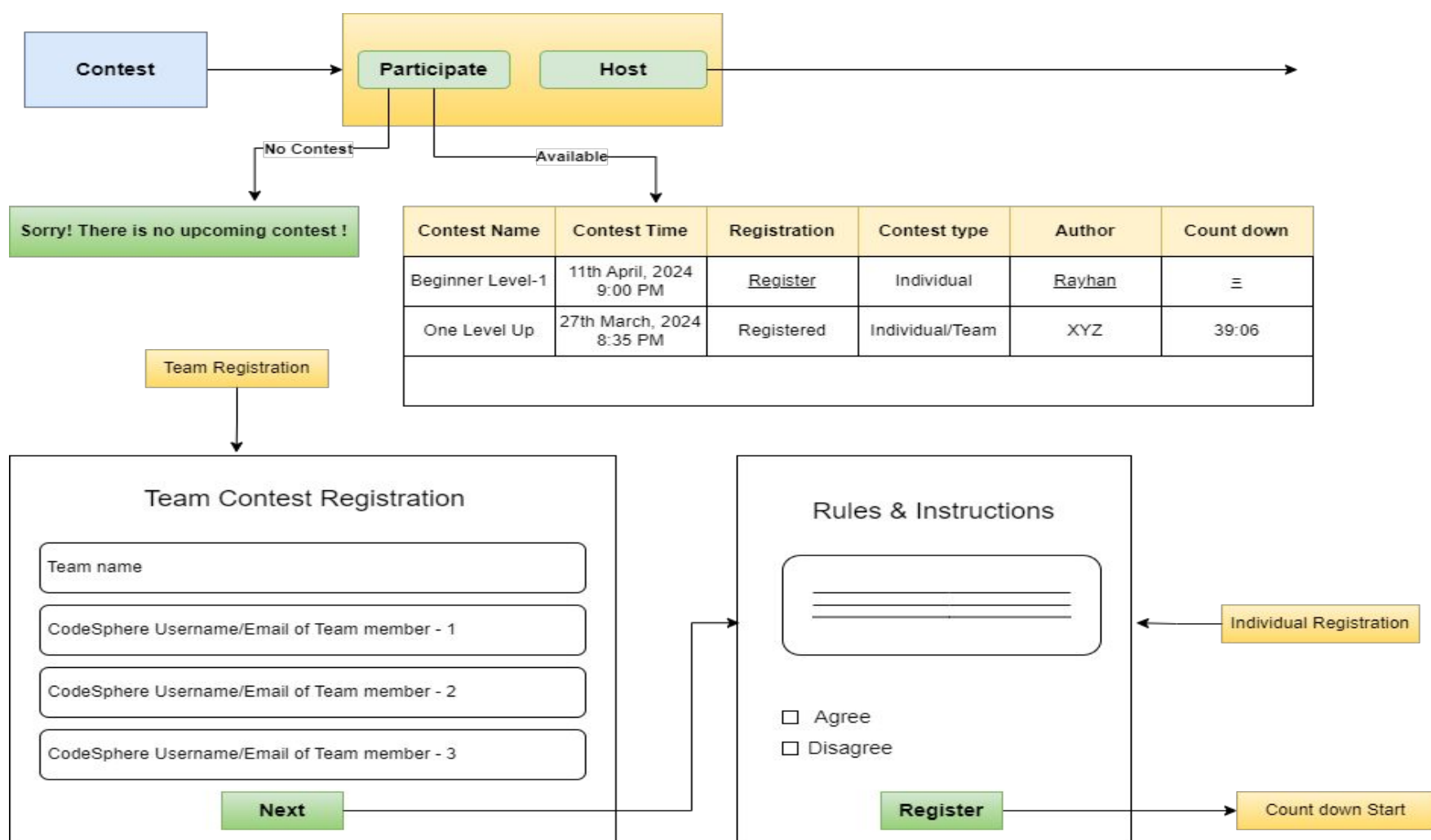
Rank (5:00:00)

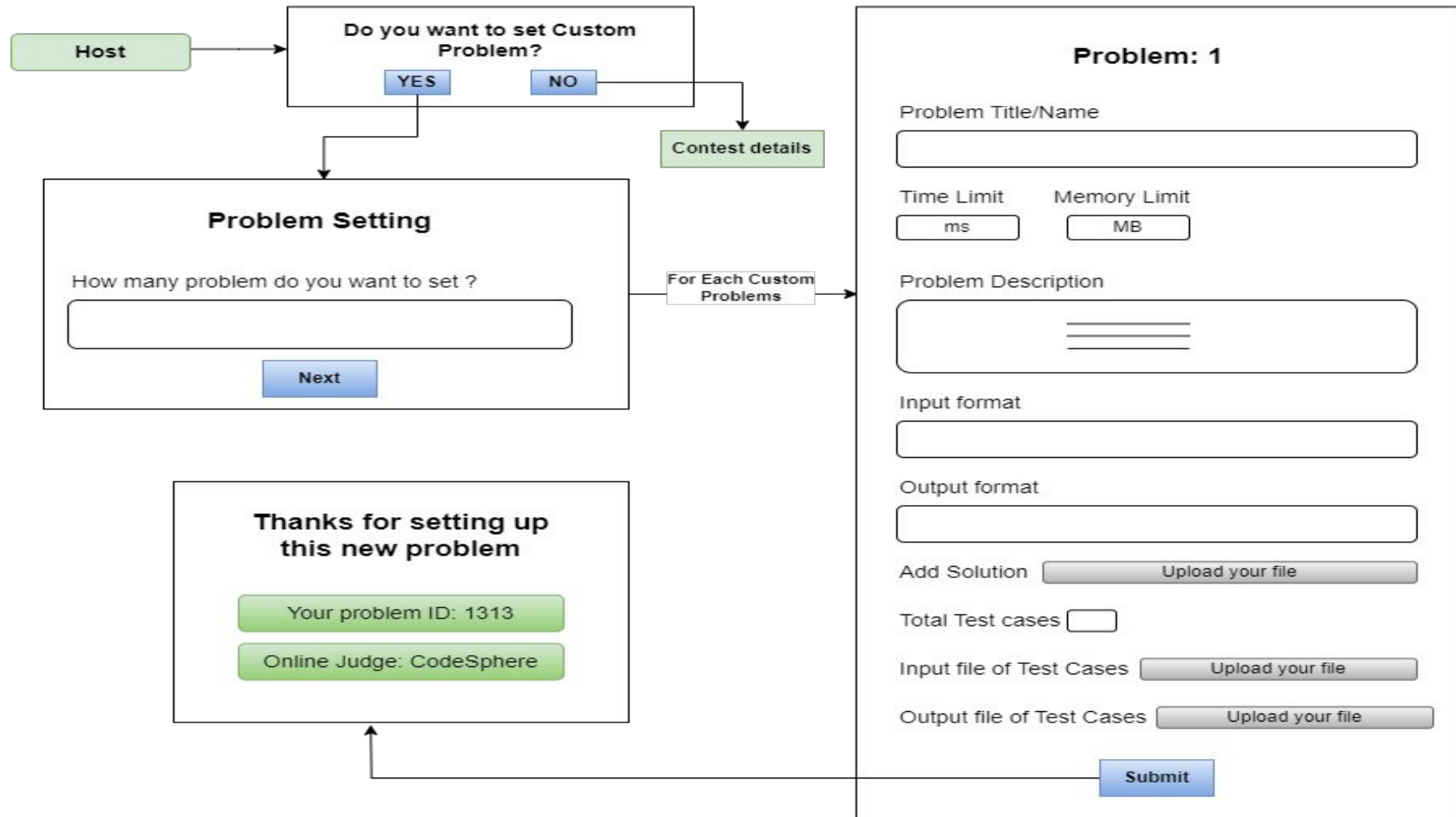
1 Comments

Setting

	Stat	#	Origin	Title
	4 / 21	A	CodeForces 51E	A
	1 / 1	B	CodeForces 1198E	B
	37 / 98	C	SPOJ OPMODULO	C
	32 / 101	D	CodeForces 55B	D
	4 / 12	E	Gym 101991A	E
	48 / 51	F	AtCoder abc144_a	F
	49 / 62	G	AtCoder abc144_b	G
	47 / 60	H	AtCoder abc144_c	H
	28 / 52	I	AtCoder abc144_d	I
	1 / 2	J	Gym 101471B	J(problem B in the pdf)

Private. Prepared by [DU_CM](#), 2023-01-02 14:17:25





Contest Details

Contest Title

Contest Type

Individual/Team/Both

Duration

Announcement

=====

Problems

Online Judge

Problem ID

Title

Mark

+ Add Problem

Cancel

Confirm

Openness

Public

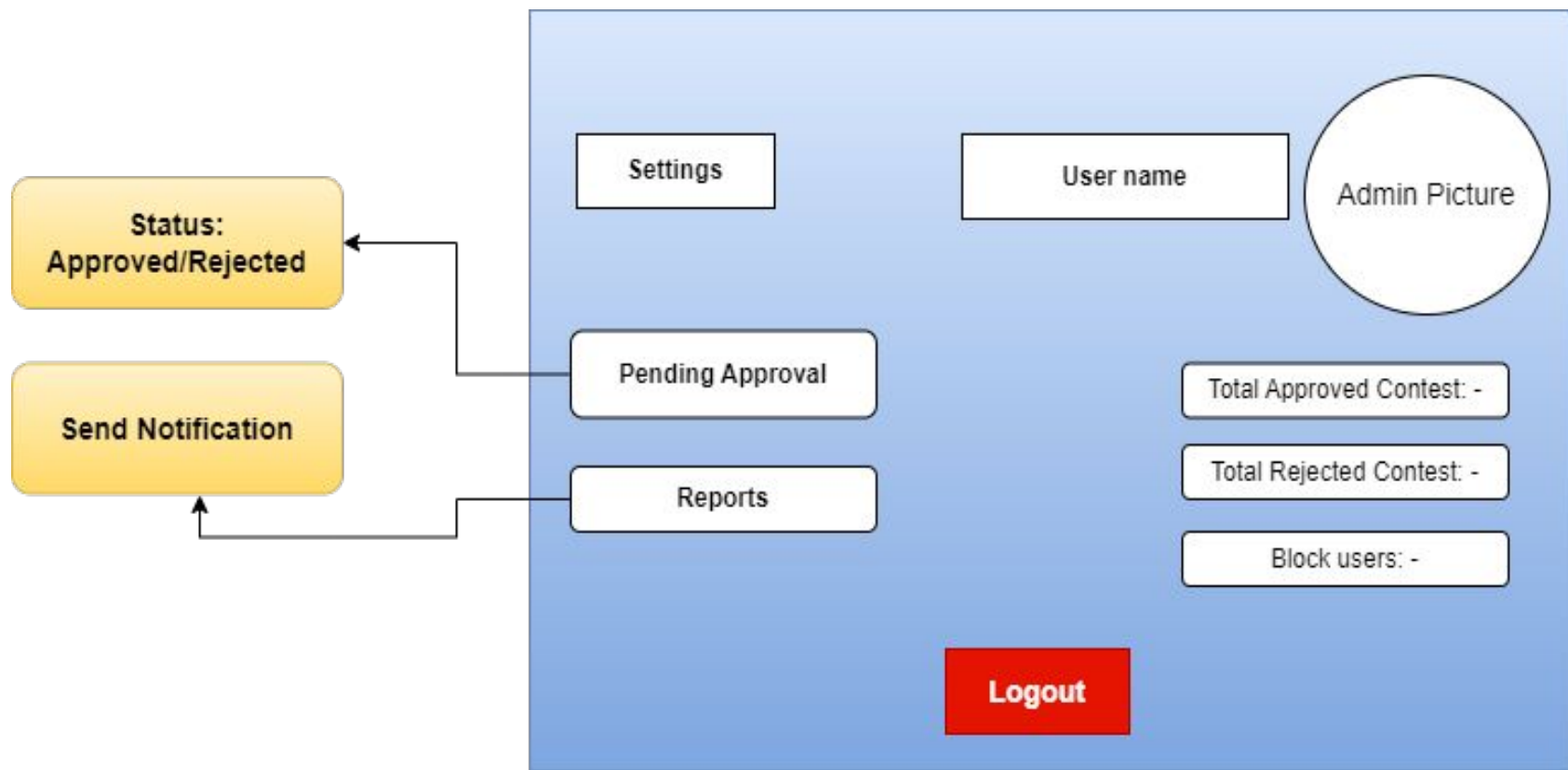
Private

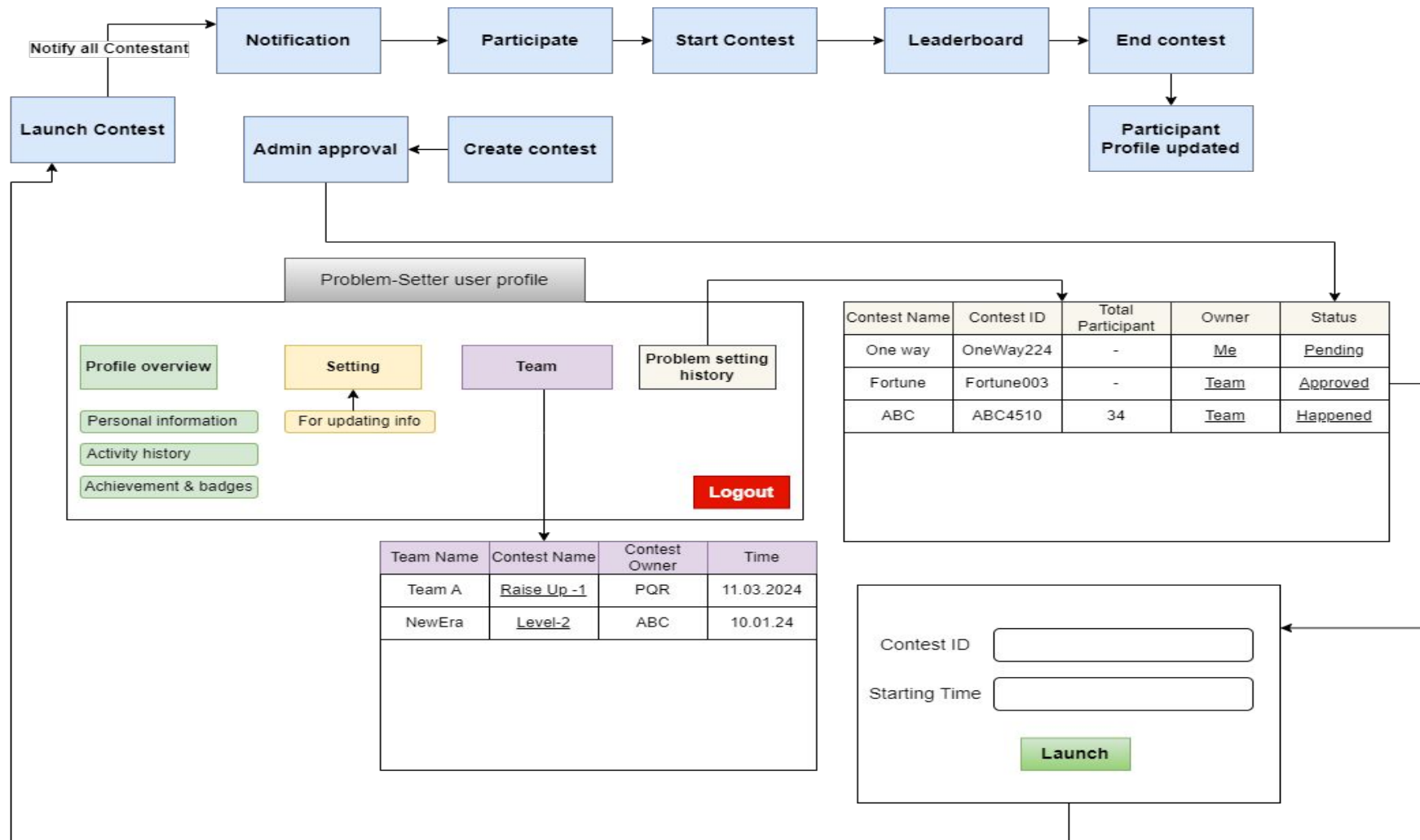
Submit

Enter Password

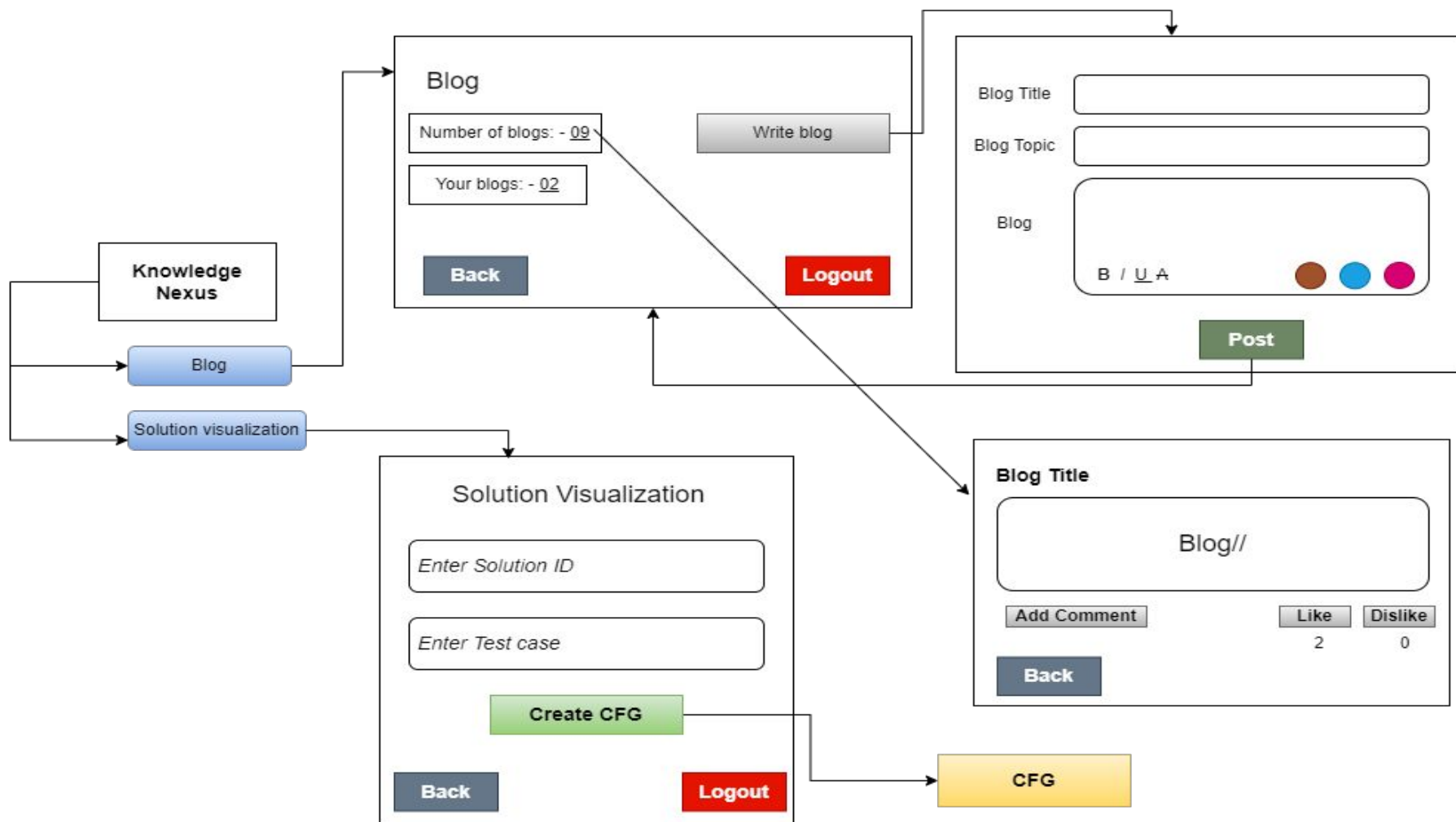
Submit

Sent Notification to Admin for Approval





Rank	Team	Score	Penalty	A	B	C	D	E	F	G	H	I
				4 / 21	1 / 1	37 / 98	32 / 101	4 / 12	48 / 51	49 / 62	47 / 60	28 / 52
1	☆  AlphaQ	10	1152	0:37:09	3:13:36	1:44:50	0:45:56	1:12:42 (-1)	1:46:34	1:47:13	1:49:06	1:26:32
2	☆  serotonin (Ayon)	8	572	3:00:14 (-2)		0:28:07	0:52:10	1:33:55	0:19:44	0:21:02	0:23:08	1:53:40
3	☆  DrSwad (Nayeemul Isl...	8	676	3:13:07		0:50:16	0:58:40	2:30:56 (-1)	0:33:16	0:36:01	0:39:01	1:35:32
4	☆  fahimcp495 (Fahim K...	7	440	(-1)		0:36:22	0:53:43	3:02:28 (-1)	0:18:28	0:20:58	0:25:45	1:23:04
5	☆  Yeamin_Kaiser (_Kaize...	7	441	2:19:44 (-1)		0:40:08	1:09:31	(-1)	0:22:20	0:20:02	0:26:20	1:43:43
6	☆  _skb_ (Sakib Hassan)	6	268			0:37:01 (-1)	1:04:52	(-4)	0:19:59	0:17:57	0:16:00	1:32:32
7	☆  inzamam_inz (INZA...	6	325			0:41:20	0:58:52		0:22:51	0:20:28	0:27:26	2:34:04
8	☆  jaian (Jaian_CSEDU25)	6	348	(-6)		0:28:14 (-1)	0:48:35		0:29:39	0:32:05	0:35:39	2:34:04



**THANKS FOR
LISTENING**

