Software Requirements Specification (SRS) Document

Project name: Design of Holistic Progress Card for K-12 Government Schools
Team Name: Team 3 (as per Moodle teams list)
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Brief Problem Statement:-

Recently, WHO has issued a new policy that emphasizes the importance of life skills in primary and secondary education and CBSE has decided to implement this in their K-12 curriculum, which means that there is higher importance in life skills analysis and evaluation of the students' in their respective report cards. Our product deals with the analysis and the representation of the child's progress in both academic, life skills, and non-academic/co-curricular activities through holistic report cards.

System Requirements:-

- The website is supposed to be responsive, working on both phones and laptops alike having their own respective UIs.
- The base of the project is expected to be built using the MERN stack.
- Every user - parents, teachers, and students - has its own dashboards.

Technologies and skills expected to be used:-
- Express (web application framework for Node.js).
- MongoDB (NoSQL (non-relational) document-oriented database) and Database design.
- NodeJS.
- HTML, CSS, JavaScript, React (for frontend design).
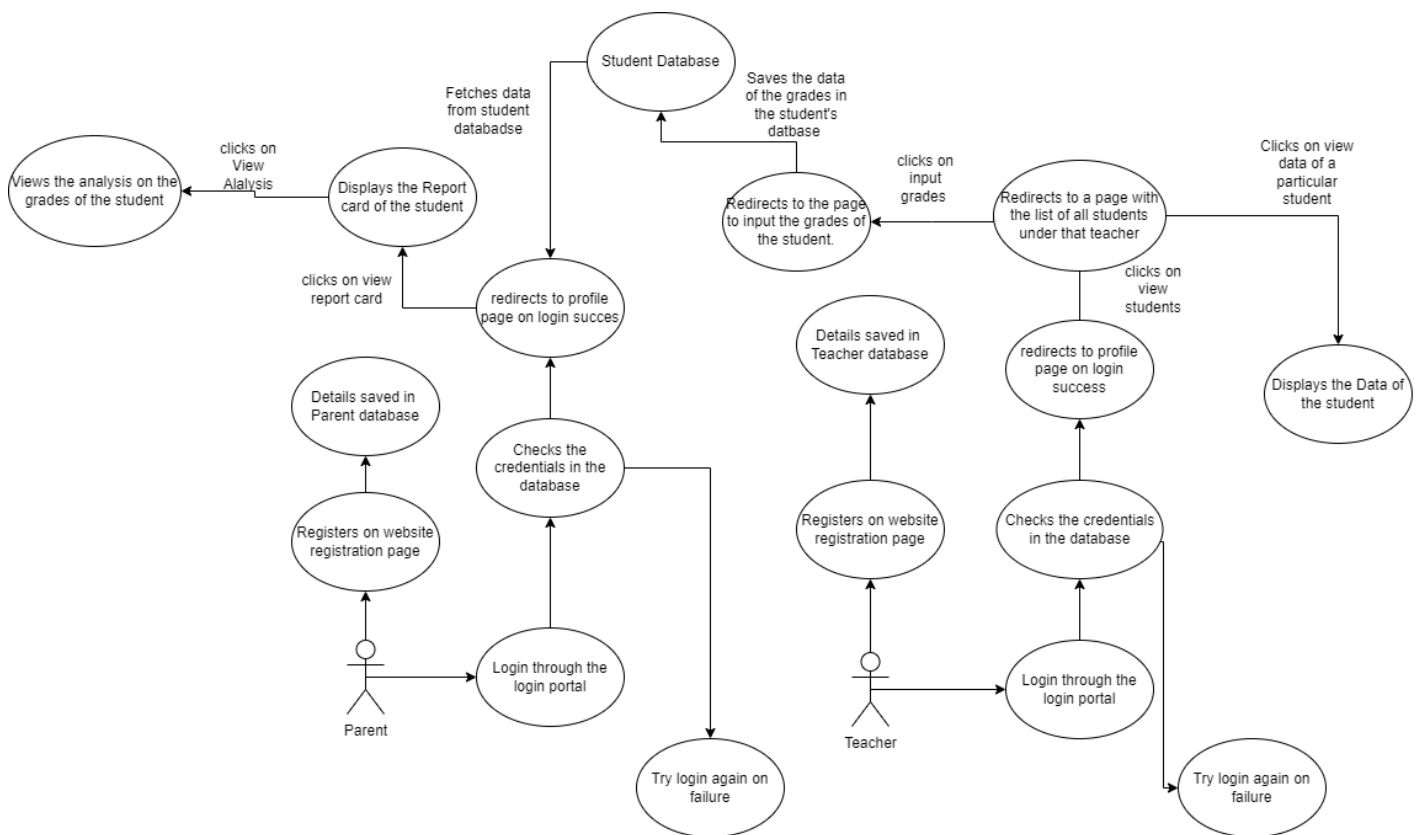
Users profile

- Teachers: The teachers will use the website to upload the student data. The mode to view this will be the online website and the teachers are expected to know how to log in and input data.
- Parents: The parents will use the website to view their child's data and its analysis. The mode to view this will be the online website and the parents are expected to know how to log in and interpret the results and its analysis.

Feature requirements (to be updated on further progress)

No.	User Case Name	Description	Release
1.	Parents Registration	Registration for parents of new students	Release-1
2.	Parents Login	Login portal for parents	Release-1
3.	Teacher Registration	Registration of new teachers	Release-1
4.	Teacher Login	Login portal for teachers	Release-1
5.	Input of Grades of students	Adding the grades of students after an assessment by the teacher	Release-2
6.	Viewing the report card of student	Feature to allow parents to view the digital report card of the student.	Release-2
7.	Viewing the analysis of grades	Option to see the analysis of the grades for the parents.	Release-2
8.	Dashboard of every student under the teacher and option to view his/her data.	Dashboard for the teacher to view the data of any student studying under him/her.	Release-2

Use case diagram

(Will be updated on further progress)

Use case description

Use Case Number:	UC-01
Use Case Name:	Parent Registration
Overview:	Registration for parents of new students.
Actors:	Parents
Precondition:	The parent's ward must have the school Id card with his/her class and roll number. Also, an email id is required.
Flow:	Main (success) Flow: 1. Parents fill in the required fields. 2. The data is saved in the database with the parent's login credentials.
	Alternate Flows: If any field is left empty the page will not allow the parent to register by giving an alert about the field being empty.
Post Condition:	After registration, the parent will be able to login using the email and password they set at the registration page.

Use Case Number:	UC-02
Use Case Name:	Parents Login
Overview:	Login portal for parents
Actors:	Parent
Precondition:	Must have registered himself/herself from the registration portal and have an email id password to log in.
Flow:	Main (success) Flow: 1. The parent will enter the email and password that he used on the registration page and try to log in.
	Alternate Flows: 1. If the email is not in the database the page will show an email id not registered. 2. If the password to the email id does not match the pop-up says in the correct password.
Post Condition:	If Login is successful the page will be redirected to the student's profile.

Use Case Number:	UC-03
Use Case Name:	Teacher Registration
Overview:	Registration of new teachers
Actors:	Teachers
Precondition:	The teacher must have a School-Id card. Also, an email id is required.
Flow:	Main (success) Flow: 1. Teachers fill in the required fields. 2. The data is saved in the database with the teacher's login credentials.
	Alternate Flows: If any field is left empty the page will not allow the teacher to register by giving an alert about the field being empty.
Post Condition:	After registration, the teachers will be able to login using the email and password they set at the registration page.

Use Case Number:	UC-04
Use Case Name:	Teacher Login
Overview:	Login portal for teachers.
Actors:	Teachers
Precondition:	Must have registered himself/herself from the registration portal and have an email id password to login.
Flow:	Main (success) Flow: The teacher will enter the email and password that he used in the registration page and try to Login.
	Alternate Flows: 3. If the email is not in the database the page will show an email id not registered. 4. If the password to the email id does not match the pop up says incorrect password.
Post Condition:	If Login is success the page will be redirected to the student's profile.

Use Case Number:	UC-05
Use Case Name:	Input of Grades of students
Overview:	Teachers will input the grades of students for their subjects
Actors:	Teachers
Precondition:	Must have Logged In using his/her login Id and password
Flow:	Main (success) Flow: The teacher will input the grades of the student and it will be stored in the database.
	Alternate Flows: If the teacher enters the grades in incorrect format the UI will not accept it and show an error message.
Post Condition:	If the format is correct the grades are stored in database of that particular student.

Use Case Number:	UC-06
Use Case Name:	Viewing the report card of students
Overview:	The parents have the option to see the report card of their child.
Actors:	Parent
Precondition:	Must have Logged In using his/her login Id and password
Flow:	Main (success) Flow: When the user clicks on the view report card button he/she is redirected to to a page having the report card.
	Alternate Flows: None
Post Condition:	The parent will be able to see the digital copy of report card of his/her child.

Use Case Number:	UC-07
Use Case Name:	Viewing the analysis of grades
Overview:	Parents will be the analysis of the grade report on his/her ward
Actors:	Parent
Precondition:	Must have Logged In using his/her login Id and password
Flow:	Main (success) Flow: The parent to redirected to a page having the analysis of the grade report on clicking view analysis button.
	Alternate Flows: None
Post Condition:	The parent will be able to see the analysis(graphs and stats) of the grade report of his/her child on clicking on view analysis button.

Use Case Number:	UC-08
Use Case Name:	Dashboard of every student under the teacher and option to view his/her data.
Overview:	Teachers will be able to see the list of all students and be able to see the data of each student.
Actors:	Teachers
Precondition:	Must have Logged In using his/her login Id and password
Flow:	Main (success) Flow: 1. The teacher will be redirected on a page having the list of all students under him/her on clicking view my class button. 2. On clicking the view data button beside the student name the teacher will be able to see his/ her data.
	Alternate Flows: none
Post Condition:	1. The teacher will be able to see the list of each student studying under him/her. 2. On clicking on the view data button of a particular student the teacher will have the access to all the data of the student including his/her grade.

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