TOPIC : EDUCATION

TEAM CODEZILLAS

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E-LEARNING PLATFORM TO ACCOMMODATE DIFFERENT LEARNER NEEDS :

Our E-learning **_interactive_** platform mainly focuses on learners with the following disabilities:

- ### *Dyslexia*

This is a learning disorder characterized by difficulty reading. This includes late talking, learning new words slowly and delay in learning to read.

- ### *Autism*

This is a disorder that impairs the ability to communicate and interact. This includes difficulty in communication, social interaction etc.

- ### *Down Syndrome*

This disorder causes a distinct facial appearance, intellectual disability and development delays.

For children with these dissabilities when provided a nurturing environment gives the child best chance to reach full potential.

Here we found best way to train these kids by a method called as Augmentative and Alternative Communication (AAC), which we have incorporated in our website. The website is designed with creative and contrasting color pallets.

DESCRIPTION :

The proposed E-learning audio interactive platform comprising of flashcards designed for upbringing of slow learners and students who suffer from different learning challenges such as Autism, Down syndrome and Dyslexia. It uses a recorded voice or TTS. The AAC based website is a comprehensive learning platform designed by us to help individuals who are non-verbal to communicate through flashcards, images, profiles, and symbols. We hence focus mainly on Adaptive learner models to accommodate different learner needs and Measurable learning outcomes. We have also designed e-learning courses For different generations too.

Grade - Ⅰ : Age (7-11) - These set of students are taught by ***flashcards with audios*** which includes:

      1.Alphabets
    2.Numbers

Grade - ⅠⅠ : Age (12-15) - These set of students are taught ***shapes, words, gestures and expressions.***

CONTENTS :

We have designed a responsive and audio interactive E-learning platform which comprises of colorful and creative learning content, student friendly assessment. Statistical analysis of the performance of pupil in different sections of a subject. The doubt solving and mentoring sessions can be scheduled quickly and the recording of the same is made available on the same portal. The feedback can be given after the mentoring sessions.

1.Login/Register: The register and login page is setup in the homepage. We've ***incorporated backend to store the pupil and their parent's credentials to monitor the performance of the pupil.***

2.Assessment

Interactive games and quiz have been designed to improve their knowledge and test their learning.

Such as the following:

1. Drag and Drop: The ***recognition of the image*** should be done and has to be ***dragged and dropped on the corresponding word.***

   2.Scrambled words: The letters in a word will be scrambled hence, the same has ***to be arranged in the correct order to obtain a meaningful word.***

   3.Pictionary: The picture will be displayed, the same ***should be visualized by the pupil and the relevant word/phrase*** has to be mentioned beside the respective images.

3.Performance analysis: This section includes ***graphical/statistical representation***, where the parents can keep track of their children's performance in ***various sections of a subject***.

4.Mentorship: The parents can ***schedule a meeting with the pupil's mentor*** for online classes or for the ***counselling sessions*** for their children , the ***recorded sessions will be available on the same portal.***

5.Feedback: Parents can give feedback from the portal, stating ***what sections he/she feels is not student friendly, or any such issues regarding the functionality of the platform, etc..***

WAYS TO HOST THE PROJECT ON THE LOCALHOST:

1.Here,Backend is mainly for storing the information which we entered in Login and Registration form.

2.PHP and SQL is the database used to store the data .

3.Through Xxamp server we are running the local host.