VOICE BASED ONLINE EXAMINATION FOR BLIND PEOPLE

Hari Priya M[1], Merlin Ahijah G Mohan[2], Rajethaselvam R[3], Asso.prof G Prince Devaraj[4]

[1,2,3] UG Scholars, Department of Information Technology, Francis Xavier Engineering College, Tirunelveli

[4] Professor, Department of Information Technology, Francis Xavier Engineering College, Tirunelveli

ABSTRACT:

Likewise all understudies paying little mind to their own conditions have a privilege of admittance to and interest in the training framework as indicated by their latent capacity various agricultural nations keep on offering instructive types of assistance to understudies with handicaps in "isolated" schools and capacity .Nonetheless, with the quickly developing populance and expanding number of individuals with visual deficiency alongside different handicaps need for utilization of innovation in the field of schooling has gotten impending with existing arrangement of serious assessement understudies deal with issues while communicating with the framework, misconceptions emerging because of human go and furthermore a capacity to adapt up to different understudies our venture using discourse innovation, endeavours to give answers for a portion of these issues by making an intuitive framework. In this way, the application will help in establishing a climate that gives equivalent freedoms to every one of the understudies in taking up serious tests. This will improve the current instructive framework for blinds profession.
Keywords: speech recognition, speech synthesis.

1   INTRODUCTION

The development of the Internet and specifically the world wide web is now impacting the manner in which science is instructed and will without a doubt do as much to more prominent degree later on. In regions of training it offers a medium that can possibly be more receptive to understudies. To empower more noteworthy interest in their own learning and to give more noteworthy admittance to various wellsprings of data that customary strategies offers. Later on dazzle people groups additionally can do online test like an ordinary human if our project is conveyed progressively.

2   OBJECTIVE

For the supervising faculty, marketing the test is finished naturally and promptly; the workforce is calmed from these tedious obligations. Questions can be effectively reused from the inquiry bank effectively altered and changed. Different rrenditions of similar inquiry can be produced for various understudies.

A. FOR THE BLINDS:

Test can be taken whenever. Test can be taken at any place. Blinds can login the test utilizing their picture check. Questions can be endeavoured in a

pressure less climate. Test can be taken utilizing a straightforward pc, here questions and alternatives are though voice. The outcomes are additionally conveyed through voice.

B. FOR THE ORGANIZATION:

The imprints are consequently gathered, examined and scattered for purpose like assessment of instructing and learning measure.

C. EXISTING FRAMEWORK:

In this world visually impaired individuals can get the information utilizing different interfaces. For example, one normal strategy for the visually impaired individuals have been planned to utilizeis by voice acknowledgment that is which has a voice recording system where the substance had recorded as of now in certain configuration, the visually impaired individuals ought to should hear the recorded substance in that recording framework dependent on thusly they can without much of a stretch know the substance and learn in a favoured manner and furthermore they can associate with that framework by giving their voice as an info. These normal methods have been utilized for the daze individuals to uncover their ability in different stages and to get contend with typically individuals through the assistance of numerous gadgets. For instance in iphone there is an office which permits a daze individuals to get communicate with that gadget as an ordinary man. On the off chance that they contacts any catch or the presentation alternative in the iphone have been intended to respond when by giving voice yield. So a dazzle individuals can get to everyone of the alternatives like an ordinary man perusing, visiting, sms, music, streaming and so forth.

DISADVANTAGES:

Significant impediment is that they need to give a voice contribution to an unmistakable way there ought to be some befuddle while giving a long word as contribution there might be commotion concealment and furthermore for various language other that English they are not inclination agreeable.

3   PROBLEM DEFINITION

The primary point is to propose a framework that utilizes discourse innovation to furnish understudies with access to data during tests. The key focal point of use is to furnish understudies with a capacity to communicate with the framework through discourse. The application automates the assessment process through perusing out questions to the client and accepting their information orally. Application moreover gives assistants to different necessities, such as knowing the time staying during tests. Utilization of this application will advantage understudies with:

- Learning incapacities including dyslexia and dysgraphia.
- Poor or restricted engine abilities.
- Vision hindrance.
- Physical incapacities.
- Limited English language.

4   PROPOSED FRAMEWORK

There has been no legitimate applications for giving on the web assessment for dazzle individuals. By considering the above mentioned hindrance we will be going to make a whole window application for dazzle individuals to concede in online assessment like an ordinary group with no challenges. (Here, all yields are in

voice) The exam management system has been created to help programmed reviewing, test documenting and test organization. In majority of them, the generally utilized inquiries are correspondence to courses and it ought to be effectively judged and assessed online by contrasting and the right answers. The average inquiries incorporate yes/no inquiries, various decision/single-answer questions, various decision/numerous answer questions, coordinating with questions, numeric inquires and paper questions. This system is assembled dependent on open source innovation.

5   SCOPE

This venture propose a framework that will make an upheaval in a universe of schooling by giving a simpler method to outwardly disable individuals to step through exams similarly as. The framework goes about as a go between who changes over the reactions that are offered orally to the framework to worthy and required arrangements for example text. At the point when client gives reaction orally discourse to message converter is summoned and it changes the reaction in text over to check the fitting alternative of all. Addtionally, other fundamental things like clock and result can likewise be heard. Both the things can be summoned orally simply by recalling not may orders. There are unique segments in the framework. Client can pick any one choice through voice order. The entire framework deals with voice order so everybody can utilize a similar framework deals with voice order so everybody can utilize a similar framework including outwardly hindered individuals.

6   STRATEGIES UTILIZED

The venture is a window application in .NET that can be utilized to direct assessment for genuinely tested. The task has chiefly utilized after procedures:

- Speech blend
- Speech acknowledgment
- CBIR

Discourse blend is an innovation used to yield voice when given content as an info. At times otherwise called text to discourse transformation. Discourse acknowledgment is an innovation used to yield some content or an occasion when given discourse as an info. Now and then additionally know as discourse to message change. Content based picture recovery is a method use to coordinate pictures.

7 MODULE DESCRIPTION

A. REGISTER:

The absolute first module is enlistment module. In this module the outwardly debilitated individual or the visually impaired individual can have enlistment prior to giving test. The details requires are to be filled by a third individual or an organizer designated. After every one of the subtleties are filled appropriately an enlistment id will be given to the examinee. The examinee can utilize this enlistment id to login and give test.

B. LOGIN:

The second module is login module. In this module the examinee can login utilizing enrolment id gave during enlistment and secret key that will be candidate simage. Then candidate simage will be coordinated with the one that he/she had given during enrolment. In the event

that both the client id and picture matches up-and-comer will be permitted to login else he/she won't to be diverted to test window. For picture coordinating with we have utilized the CBIR innovation.

C. ADMIN LOGIN:

In this module the chairman having a safe id and secret phrase what's more, can handle the whole assessment. Administrator can likewise refresh the inquiry data set can erase questions, update questions can likewise keep up examine information base that is enlisted understudies information base. Proper security is there for getting to address data set what's more examine data i.e legitimate validation is there.

D. EXAM:

The appropriate response n be given by examine by picking right choice verbally. Also, the offered response is checked and afterward answer can be submitted verbally. The appropriate response can likewise be skipped. In the interim, the clock is pursuing and each 15 minutes the remaining time is called out. The examine can skip questions, mark for audit inquires according to his prerequisite and can answer at whatever point he/she needs. Up-andcomer can likewise explore

to any of the inquires simply by talking the inquiry number. The The rationale is portrayed as follows: the frameworks first match the pictures and confirm the up-and-comer subtleties who have as of now enlisted. In the event that they are not right the situation begins once more. On the off chance that the pictures and subtleties of the applicant are right then the situation permits possibility to start their test while the applicant nothing the questions the framework.
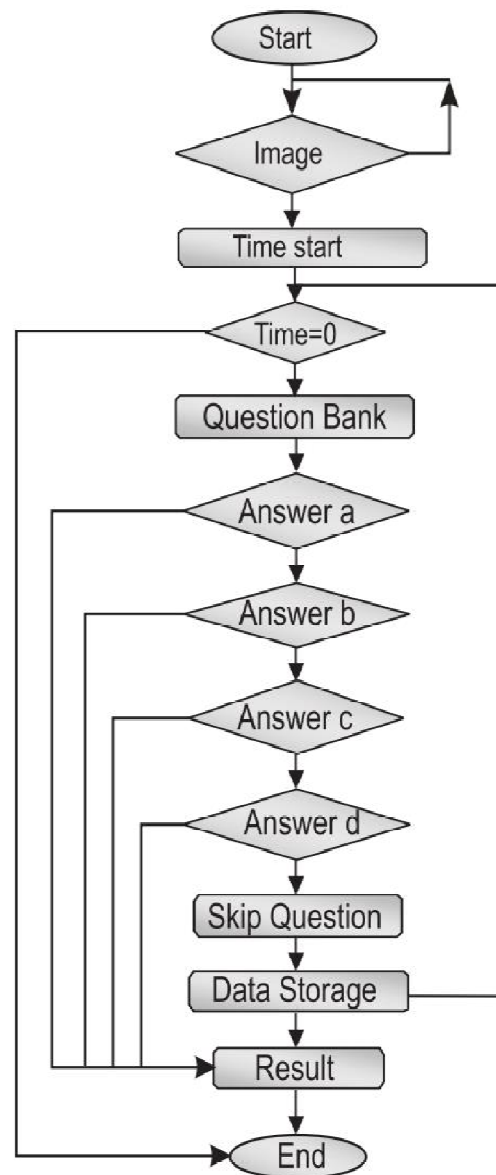
outcome will be created on the following window after every one of the inquires are endeavoured.

- Question data set is to store information identified with all inquiries what's more, its four alternatives alongside right answer of test paper.
- Subject information base is to store distinctive subjectname and its id accessible for test.
- Registration data set is to store competitor's data presented by him during enlistment.
- Result data set into store data identified with examinee result ex -marks, question endeavoured, no. Of right answers etc.

DATABASES USED

Question Database   Subject Database   Registration

Start

Image

Time start

Time=0

Question Bank

Answer a

Answer b

Answer c

Answer d

Skip Question

Data Storage

Result

End

105

EXAMINATION ENGINE

Check for the time if the test time lapse or not. The frameworks end the test in the event that it is lapsed save the appropriate response in the information base.

8   CONCLUSION

This venture would be a helpful one for each visually impaired individuals also genuinely tested to appreciate their ability effectively through online test like different people. In our undertaking we will be going to convey a whole application for genuinely tested individuals which can give an intuitive interface. Examine can without much of a stretch give test by providing simple voice orders. In the manner, genuinely tested individuals can without much of a stretch give test like an everyday person absent a lot of trouble. Through this they have had the option to go to numerous tests later on and additionally we will attempt to do as much as improvement in future according to the assortment of criticism.

REFERENCES

1. B.Shanmuga sundari, Essaki durai.k , srinivasan.S (2014), 'online examination system for blinds', International journal of technology enhancements and emerging engineering research.

2. Akriti vats, apoorv tendon, Deepam

   Varshney, Amit sinha(2016), 'voice operated tool-examination portal for blind persons' , Internatinal journal of computer applications.

3. J.Kanimozhi, A.Karkuzhali and K.Suresh kumar(2017), 'online examination for visually challenged people' ,asian journal of applied science and technology.

4. Pawan Bharadwaj, Tirumala Balaji.G, Valleesh Prabhu, Shreehari.N, Rahul Kumar(2019), 'e-blind examination portal' , International journal of intelligence in science and engineering.

5. Sania Khan, Sanskrit verma, shewta agarwal, prateek krishnatrey, shivam

   Sharma "voice based online examination for physically challenged" MIT International journal of computer science and information technology vol.5,N0.2,August2015.

M. Hari Priya, I am currently doing B.Tech Information Technology, Francis Xavier engineering College, Tirunelveli.

R. Rajithaselvam, I am currently doing B.Tech Information Technology, Francis Xavier engineering College, Tirunelveli.

Merlin Ahijah G Mohan, I am currently doing B.Tech Information Technology, Francis Xavier engineering College, Tirunelveli.

Mr.G.Prince Devaraj B.E,M.TECH,P.G.D.I.T
Associate Professor and Head of Department, nformation
Department of Information Technology,
Francis Xavier engineering College, Tirunelveli.