



**SMART INDIA
HACKATHON '17**

World's Biggest Hackathon

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Ministry of HRD

SEARCH

containing:



Ministry of HRD

1. NCERT Provides advice and support for the improvement of school education. This department is under the Ministry of HRD and they have identified 6 problems from their department for the Smart India Hackathon 2017.
2. CBSE is a Board of Education for public and private schools, under the Union Government of India. It comes under the Ministry of HRD.
3. National Institute of Open Schooling (NIOS) provides a number of Vocational, Life

Enrichment and community oriented courses besides General and Academic Courses at Secondary and Senior Secondary level. It also offers Elementary level Courses through its Open Basic Education Programs

[App for Monitoring of the Examination System](#)

#NIO9

Total Submissions : 14



GOVERNMENT OF INDIA

Fixation of Examination Centre

Allocation of Invigilators, Evaluators, OSDS, External Examiners

Checking the Impersonation case with biometric authentication or by any relevant technology

Monitoring of Payment status of all the stakeholders of Examination.

Sample data required: No

PARTICIPATE



[App for Intelligent Document Management system and retrieval](#)

#NIO8

Total Submissions : 6

NIOS obtains various documents from the learners as well as preserves various official Document which needs to be digitized and retrieval mechanism should be developed for retrieval of these documents

Sample data required: No

PARTICIPATE



[App for Stock Inventory of the Material Production and Distributio](#)

#NIO7

Total Submissions : 3

NIOS Prints various Study Materials/Titles. A App is required for the tracking of the status of dispatched and balance Titles along with alerts when any titles reaches the buffer point.

Sample data required: No

PARTICIPATE



[Learning mobile App for the Learners with Disability may be developed](#)



Total Submissions : 5

Based on the Learning disability the following may be developed

Study Material

Services provided by NIOS

Mobile App for Online Admission

Sample data required: No

PARTICIPATE



[Integrated Mobile App for Tracking of the Job assigned to various officials as well as correspondence](#)

#NIO5

Total Submissions : 6

Chairman Receives various communication from Ministry as well as different stake holders and based upon the requirement the jobs are assigned to various officials. To monitor these a Mobile app including the job assignment, last date to submit the report may be developed with Alerts facility.

Sample data required: No

PARTICIPATE



[Digitization of the Personnel Record](#)

#NIO4

Total Submissions : 5

The digitization of the HR Department including the Service Record, leaves, medical etc is required with Day to day activities.



Complain/Feedback Redressal Mechanism

#NIO3

Total Submissions : 12

Online tracking and alerts system of complain received from the learners as well as visitors and the solution provided is required with SMS alerts.

Sample data required: No

PARTICIPATE



Online Accreditation System

#NIO2

Total Submissions : 6

NIOS Grants Accreditation to the Schools based on the Application form and after following the various Stages of scrutiny. The process of Accreditation

Submission of the Application form .

Digitization of the Process of Scrutiny of the forms

After Accreditation SMS alerts and mail to be send to the Accredited Schools.

Sample data required: No

PARTICIPATE



Monitoring of Personal Contact Programs (PCP)

Learners enroll themselves from the Different study Centres and all the support in terms of Academic and Administrative is provided through these study centers. Study Centres also conduct the PCP Classes. To monitor the activities of the conduct of the Classes a i.e through Geo-tagging and Biometric Authentication a mobile app is required to day to monitoring activities and SMS alerts may be send to Learners and the coordinator for the conduct of the classes as well with the facility of payment tracking system
Data – Data about the study centre and the Learners associated with the Study Centres can be provided
Sample data required: No

PARTICIPATE



[Solution for making certification of online courses authentic at par with offline certification](#)

#NCE6

Total Submissions : 7

The software should be able to perform proctoring of online exams appeared by learner, at any time, any place.

Sample data required: No

PARTICIPATE



[Solution to prevent copy right infringement/piracy/plagiarism of NCERT text books](#)

#NCE5

Total Submissions : 21

The tool should be able to identify that the publication is the original or the pirated one based on the paper characteristics e.g. water mark, paper quality etc., text formatting, dimensions of book e.g. length, width and number of pages etc.

The tool should scan the text published in the text books of different publishers using mobile phone, or any other devices or from inputting file and find-out whether the contents are plagiarized.

[Tool to evaluate the descriptive questions](#)

#NCE4

Total Submissions : 3

The software should read the complete answer given by the students and evaluate the answer based on the marking scheme as far as possible in an objective way.

Sample data required: No.

[Software tool for evaluating performance of teachers by student](#)

#NCE3

Total Submissions : 42

Software should be able to evaluate the performance of teacher based on the inputs provided by the students. The input parameters should be based on Teacher's teaching-learning ability, attitude towards teaching, classroom management, leadership quality, inter-personal behavior etc. Based on these inputs received from the students, software should be able to give grade to the respective teacher.

Sample data required: No.

[Tool for online career counseling](#)

#NCE2

Total Submissions : 14



interventions in extra curricular activities. After consolidating all the relevant inputs the software should be able to identify the hidden potential of the candidate and advise accordingly.



Sample data required: No.

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Software tool to assess the learning achievement of students

#NCE1

Total Submissions : 10

The software should be platform independent and should assess the student's achievement as per different learning outcomes. The purpose of these assessments would be to obtain an overall picture of what students in specific classes and subjects know and can do. These findings will be used to identify gaps between the student know and what he/she should know and diagnose areas that need improvement. This information can then be used to modify intervention strategies and frame policies, guidelines etc for improving students learning abilities.

Sample data required: No

PARTICIPATE



Prevention of Impersonation

#CBS6

Total Submissions : 8

In order to prevent any impersonation the invigilators check candidates admit card and attendance sheet against the appearance of the candidate. However this is not a full proof system of checking impersonation.

The photograph of candidates are already available with us. There can be some online software which can match the candidate's photograph against the candidate appearing for the examination.

registered candidates. The software will give match or mismatch or percentage result of matching.



Sample data required: No

PARTICIPATE



Standardization of Marks

#CBS5

Total Submissions : 5

Any examination body standardizes the marks across the sets of subjects based on difficulty level. At present the standardization is leading to:

Bunching of marks at certain level

The high scorers are at disadvantageous position

There should be some other method of standardization so that bunching can be avoided and equal benefit can be given to all students.

Sample data required: No

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Standardization/Grace Statistics

#CBS4

Total Submissions : 3

To arrive at standardization formula we normally do offline processing to generate statistics to get the pass percentage and impact of standardize/grace marks.

An online system is required which can give the impact on the result based on the selected standardization and grace values. The system will get the input like set no. of question paper, subject, standardize marks, grace

Sample data required: No



Evaluation of Answer book

#CBS3

Total Submissions : 12

At present evaluator goes through each page of answer book physically and assigns marks on it. There are chances of overseeing an answer or skipping a page during evaluation, apart from totaling mistake.

To eliminate these errors, the OSM was introduced. However problem is being faced when a student answers question in a non serial manner.

There is need of a software which can identify question attempted by the candidate, and show the corresponding marking scheme to the evaluator. This will save the time in locating the marking scheme. A step further, if possible, system can read the answer written by the candidate and evaluate the same against the given marking scheme using some AI techniques.

Sample data required: No

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Image Data Processing and Evaluation

#CBS2

Total Submissions : 12

Competitive exams are conducted all across the country and abroad. The OMR answer sheets duly sealed are brought to Delhi for further processing through OMR scanner. This takes time and vulnerability exists.

generate the acknowledgement having information about total OMR answer sheet uploaded against the strength of that center. It will also show the candidates allotted to that center, OMRs images received and candidates absent. This will also keep an audit trail report like time of initiating upload, total time taken in uploading, order of uploading, date and time stamp, IP address, location of uploading.

Now after uploading, we need to evaluate the OMR sheet through image processing i.e. the system should read the image uploaded, process the data and prepare the result. This way we will be able to do the evaluation timely and without any chance of any wrong doing.

Sample data required: No

PARTICIPATE



GIS based examination centers allocation and search

#CBS1

Total Submissions : 16

At present the examination centers are being allotted based on the city choice of the candidate. Some time this leads to an examination center falling very far off from the residence of the candidate.

There is need of a software which can identify proposed centers within the 5 km radius from the candidates location. The center master data will be provided along with the capacity of the center. The software should do the center allocation based on the capacity and location of the candidate. The center should be in the same city of the candidate.

Also there should be an app through which candidate can locate the center using his/her roll no. The app will show it on the map along with the possible modes available and estimated time taken in reaching the examination center.

Sample data required: No

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