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HACKATHON '17**

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University Grants Commission (UGC)

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University Grants Commission (UGC)

University Grants Commission (UGC) of India is a statutory body set up under Ministry of Human Resource Development, and is charged with coordination, determination and maintenance of standards of higher education. It provides recognition to universities in India, and disburses funds to such recognized universities and colleges. They are participating the Smart India Hackathon 2017 seeking real time digital solutions to 20

issues faced by them.

Mapping College Neighbourhood and Social Possibilities

#UGC11

Total Submissions : 18

can play a vital role. Bringing such problems into the notice of nearby educational institution can be thought of as an open-source innovation /crowd-sourced solution. For example, managing traffic or reducing accident rates by the initiative/involvement of an institution in the vicinity. Or, sharing an innovation on water harvesting (an MRP or a Project) and impacting the real saving of water may be mapped. Many student projects can be well aligned to local social problems. Can we have a digital tool for such project based collaborations with real impact. Can we map such colleges and link it with the digital platform to share innovations (as mentioned in problem statement 3). This can directly impact the curriculum with the real regional requirement, a way to ensure relevance of learning.

An example: A district has very unfavourable number of old-young ratio of citizens. This clearly indicates the possibility for having a course in geriatrics or assistive healthcare in the colleges in that district.

Sample data required: No

PARTICIPATE



Continuous monitoring of the programmes

#UGC20

Total Submissions : 15

We are funding a large number of high budget projects with potential for positive outcomes. Though we ask the PIs to submit progress reports periodically, continuous monitoring of the projects is a problem in the absence of a proper mechanism.

Sample data required: No

PARTICIPATE



Identification of Fake Universities.

#UGC19

Total Submissions : 10

regular, there need to be standard, when required to stop them can be taken through effective monitoring.

Sample data required: No



Monitoring the combined data of IUCs/MCs/NFCs to ensure timely action/disposal.

#UGC18

Total Submissions : 9

IUC Bureau deals with 34 institutions and deals with their administrative issues. A combined data set-up/collection is required to avoid the delay.

Appropriate software may lead to greater efficiency.

Sample Data required: No.

PARTICIPATE



Immediate response by IUCs/MCs/NFCs.

#UGC17

Total Submissions : 1

At present, we used to send a communication to Centres and then wait for long for a response to come. This gives rise to distraction as two different issues come at same time.

A specific authority person may be delegated to keep a watch on all such communication form UGC for a time bound disposal of papers leading to time saving & enhanced productivity at both ends.

Sample data required: No



#UGC16

Total Submissions : 4

We have a main office and six regional offices. There are a number of schemes which are run by the main office as well as by the regional offices. Moreover, a large number of employees are involved from initiating a scheme till final implementation. So, very often, the process becomes very cumbersome while collecting and maintaining the datas. Moreover, at times, there are duplications of datas and datas remain incomplete and inauthentic. So, it is necessary to have a single point where all the datas can be maintained accurately.

Sample data required: No

PARTICIPATE



To make the system responsive

#UGC15

Total Submissions : 11

In order to make the administrative system responsive to the needs of the clients and the stakeholders, we need to have a mechanism through which we can receive feedback, and the clients can track the status of their requests.

Sample data required: No

PARTICIPATE




Replacing the costly and time-consuming method of evaluation

#UGC14

Total Submissions : 19

related to the travel of the experts need to be borne by the office. Moreover, the experts lose their valuable time while travelling and attending a meeting.

 We need a system which enables us to evaluate the proposals in a very cost-effective way without compromising with transparency and fairness.

Sample data required: No

PARTICIPATE



[Online receipt of applications/proposals](#)

#UGC13

Total Submissions : 14

Currently, we do not have any dedicated online portal to receive proposals for various schemes/programmes. Hence, we have been receiving hard copies of the proposals. It leads to problems like piling of papers, wastage of papers, storing problem due to paucity of space, and at times, misplacing or non-receipt of proposals.

We need a mechanism which is cost-effective, and can be maintained with limited skilled human resources.

Sample data required: No

PARTICIPATE



[How to Check the duplicity of Research Projects submitted to various funding agencies.](#)

#UGC12

Total Submissions : 12

UGC allots a number of research projects, over a period of time, many of which may be duplicate or similar. How to avoid this? Also how to make better use of the project reports which are currently stored as hard copies.

Sample data required: No



#UGC10

Total Submissions : 10

UGC uses a variety of data points for important grant-related and policy related activities and decisions. NAAC accreditation status, 2(f)/12(B) status, student strength, proportion of minority students, utilisation of previous grants, complaints and grievance from the stakeholders etc are some of them.

For each data point /information on colleges as given above, we depend on different information sources and manually collate it in the physical file. A dashboard for each college in the country, which can visually depict this key information points is not available. Such a dashboard, if we are able to create, will be very useful especially at top level management of UGC. This can not only reduce the dependence on chain of employees for each and every data, but also enhance the speed of functioning of the system.

Sample data required: No

PARTICIPATE



Digital platform on facilities and resources on different disciplines across the country

#UGC9

Total Submissions : 11

UGC maintains many facilities in STEM by way of inter-university centres, centre for excellence etc. Some of such centres share the resources effectively with other stakeholders. They encourage usage rate, for example lab facilities of IUCAA, Pune is visited and used by thousands per year. There are other facilities too coming directly under MHRD or in institutions of national importance which can be utilised by a wider academic audience.

Currently word-of-mouth and respective websites are the sources of sharing such information. The information on such facilities is not available on disciplinary basis. If someone wants to know what are the best facilities available in brain-mapping in India, the only way is to depend on word-of-mouth or sporadic/independent

For example, in the area of astronomy, the new digital platform can tell us which are the top astronomy museums, top libraries in astronomy where access to public is permitted, important resource centres, annual events, historically significant institutions and places in the study of astronomy in India, think tanks etc at once. These resources can be paced as per the level of expertise required to use it. Beginner resources (meant for general public and primary school students), intermediate and advanced (meant for researchers, mainly lab facilities). This will be a great push for encouraging STEM from school level to research level in a single venture.

Sample data required: No

PARTICIPATE



[Documenting novel solutions and innovations in Education- An App](#)

#UGC8

Total Submissions : 15

UGC encourages Educational Innovation implicitly by way of different schemes and explicitly in guidelines. For example, there is a separate head “Educational Innovation” under the scheme GDA.

Though we know at different scales, formally and informally, innovations happen in many colleges, there is no platform to document it at a national level. What are the innovations happening is available only on sporadic and incomplete sources. An app where colleges can upload innovations in specified format, which in turn aggregates many such innovations, may be inspiring move for other colleges too. Can we have an app for this which can be embedded in our websites? This can showcase how different colleges/students/teachers address and solved the educational challenge in innovative ways.

Sample data required: No

PARTICIPATE



Making the internal database of UGC Bureau/offices adaptable to the Payment Gateway (PFMS)



Total Submissions : 2

Public Financial Management System (PFMS) is the single payment gateway for all payments from UGC from this financial year onwards. To make use of the reporting capabilities of PFMS, it should be compatible to the internal data management mechanism. Currently, most UGC Regional Offices depend on old versions of MS-Office and d-base. The internal data management of bureau are not uniform.

Lack of uniformity among different offices/bureau on data management practices has at least three limitations. Firstly, it duplicates most works on the grant-giving aspect in the office. Secondly, capabilities of PFMS as payment gateway and e-office as office management tool remain underutilised. Thirdly, the work becomes more error-prone as many records are duplicates. For example, Grant-in-aid bill and PPA advice are duplicates. By aligning internal database with the payment gateway, we will be able to meet the information requirements of internal stakeholders (Ministry, Parliament, Our own offices etc) more effectively and efficiently. We will be able to give more inputs for policy making.

Sample data required: No

PARTICIPATE



Integrating different digital platforms providing information on Higher Education to the public

#UGC6

Total Submissions : 20

Following are the five official information sources of UGC/MHRD regarding higher education institutions in the country. 1) UGC websites, 2) AISHE web-portal (All India Survey on Higher Education, 3) NAAC Database (for Accreditation Information), 4) NIRF (Ranking Framework by MHRD), 5) Websites of AICTE and other regulatory bodies.

These portals operate on stand-alone mode now. Citizens will not get a complete picture on recognitions, course-portfolio, accreditation, scholarships etc from single source. Integrating these portals (while maintaining

requirements of thousands of enquiries, RTIs and information requirements can be effectively solved.

 Sample data required: No

PARTICIPATE



Internal Research Management Systems for institutions

#UGC5

Total Submissions : 5

The UGC is supporting large number of institutions, deemed to be universities and state / central universities to undertake research work and achieve ranking in world class institutions. There are many new universities have been set-up having recruited young faculty members with innovative ideas but despite of much recourse theses are not able to win patents / good projects, publish in high-impact research journals, develop socially applied products, and get cited for internationally recognized language and cultural research for acquiring good ranks among world institutions. It is generally felt that the research work, in Indian institutions, left mostly at preliminary level and the researchers have to handle all the allied work themselves which thwart the advanced research in potential areas with potential ideas. An Internal Research Management Systems (IRMS) may be developed for research support to the academic researchers. The IRMS may enable interface with facilitative tools for researchers and university administration to sort out the potential ideas and applied support to qualified ideas through a team of statistician, patent experts, data analyzers, market experts and network of UGC specialized Inter University Centres, possibly in following manner:

Researchers may log-in to share confidential research ideas at any level with institutional research support team on IRMS.

The potential ideas may be sorted out based on the survey of literature about published work / products available in the market / patents etc with integrated online secured data analyzer.

Sorted out ideas may be available to the Research Director / Vice-Chancellor Log-in for discussion with seed idea of concerned faculty / researcher.

The qualified ideas may be formulated to a research proposal for financial support, or internal research for possible patenting, or as industrial project as the case may be with institutional research support a team of

The IRMS should identify the research facilities available for sophisticated instrumentation with UGC – IUCs and other scientific institutions based on the research methodology entered / modified by the researcher / research director.

The IRMS to have integrated tool for literature survey / patent search / call for projects and market data in the thrust areas identified by the institution.

It should have dedicated and secured work platform for each member of institutional research support team, say statistician, experimental toxicologist, advocate, patent experts, data analyzers, market experts etc.

It should generate reports on : * Thrust area wise ongoing research projects

– Total external funding secured by the institution – area wise, year wise

– Plots and reports of research outcomes, PhD produced, patents, publications with statistical reports on H index, Cumulative Impact Factor, Total Citations, External Citations and Country wise Citations etc.

– Department wise and faculty wise research data

-Artistic and literary copyrights secured by faculty.

-Availability of faculty / academic teams(s) for undertaking Govt projects under Extension activities with available support resources in related field reflecting capability to operationalize.

Sample data required: No

PARTICIPATE



UGC Digital Curation Platform for Research Outcomes

#UGC4

Total Submissions : 2

The UGC provides funding to faculty members / Research students and institutions for undertaking research and development (R&D) activities in wide spectrum of subject areas including applied sciences, technology, pharma, traditional knowledge and such other fields. The research outcomes for the UGC supported R&D activities remain not rigorously monitored as desired due to the fact that the outcomes of major / minor research projects, research awards and institutional research are submitted as bound book and further exploitation of this

management on the similar line it is provided for patent application so that the data, after due deliberation, may be shared with organizations like NRDC / NIF for further support to potential institutions for possible applied R&D / patents or scientific advancements of value for national economy.

Sample data required: No

PARTICIPATE



UGC Schemes Outcomes Analyzer

#UGC3

Total Submissions : 14

The UGC provided funding to eligible institutions/faculty and students under number of schemes in higher education sector. Every scheme has its identified objectives and outcome parameters under which the success of the schemes is viewed at the time of review. It is in the interest of UGC as well as Ministry to have clear picture of the performance of a particular scheme being implemented with specific goals. It become difficult for the section staff to collect the relevant data from grantee institutions / beneficiaries and to project the outcomes in proper and desired manner which is very much required to focus our institutional performance and achievements. Scheme wise outcome analyzer may help the bureau to present the physical financial status and output with respect to set goals at various time points for state / sector / community, gender and overall nation.

Such Outcome Analyzer for Skill Development Schemes viz. CC, B.Voc and KAUSHAL may be developed which should be enabled for three way inputs from UGC, approved institutions as well as from enrolled students / learners to provide the one click status of funding with respect to the following:

State wise, trade wise and level wise approved intake in skill based vocational courses.

State wise, institution wise, trade wise student's enrolment for General/ SC / ST / OBC / Minority and Women.

Integrated auto calculation for data submitted by the institutions through their interface on above parameters to generate reports about state wise, trade wise, level wise, category wise and Country Report for students enrolment in skill based courses.

Similar reports for students exit, RPL, lateral entry and employment of the pass-outs.

impact of training on career advancement / salary of learners etc.

Sample data required: No



Academic Time-Table Management Tool under CBCS

#UGC2

Total Submissions : 10

The universities and colleges have adopted Choice Based Credit System in most of their courses which involves Core Courses, Foundation Courses (FC), Electives (generic / discipline specific / open), Skill Enhancement Courses (SEC), Ability Enhancement Courses (AEC), and Ability Enhancement Compulsory Courses (AECC) etc. These courses are to be pursued across the various departments of the institution and sometimes across the institutions which have MoU under the provisions of CBCS. One of the critical problems that institutions are facing is to manage the academic Time-Table for various courses enabling the option for students to take-up electives, FC, SEC, AEC and AECC which may be available through from departments / institutions other than where he/she enrolled for core subject. If, such software with matrix based algorithm may be developed as digital tool for operational management of academic time table, it may serve for the best use of academic infrastructure and human recourses in our academic institutions with greater facilitation to the students under CBCS.

Sample data required: No

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Institutional Funding Operational Management Solution

#UGC1

Total Submissions : 14

schemes, say Community Colleges, B.Voc, DDU KAUSHAL etc., and institutional support schemes. The disbursement of grants takes place in instalments with noting of UC after first instalment. It is a felt need to have a possible digital solution to for operational management of institutional funding, which with staff friendly inputs, may provide the one click status of funding with respect to the following,

State wise, institution wise approved funds under the scheme

Institution wise status of grants release against the approval

Status of UC noted / to be noted against the disbursed grants

Reports for total & state wise, component wise (Capital / Recurring), Plan / Non-Plan, Salary / Non-Salary for the funds allocated and released.

Sample data required: No

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