Science & Technology

Fostering global collaboration in key areas of science, and the next generation of applications and infrastructures that will enable it; providing measures to promote and demonstrate scientific processes and make them accessible to citizens; scientific projects articulated through new media.

Photo: www.gunijan.org.bd

WE DEDICATE THIS AWARD TO
DR. JAMAL NAZRUL ISLAM

Dr Jamal Nazrul Islam is one of Bangladesh's most distinguished scientists. He is well-known not only at home, but also abroad. His books about the future of the universe are textbooks at universities like Cambridge, Princeton and Harvard. It was his love for his country that compelled him to leave a professorship at Cambridge to join Chittagong University and impart his knowledge and wisdom to students in Bangladesh.

Jamal Nazrul Islam was born in Jhenaidah on the 24th of February in 1939. He passed his Senior Cambridge (O-Levels at present) and his Higher Senior Cambridge (A-Levels at present) from Lawrence College in Marit, West Pakistan. At that time, he studied mathematics by himself, perusing books. He gained his B.Sc. Honours degree from St. Xavier's College in Kolkata.

He graduated with an honours degree again from Trinity College in Cambridge, later completing M.A. there as well. It was at Cambridge that he finished his Ph.D. on Applied Mathematics and Theoretical Physics in 1968. In 1982, he completed his Sc.D. (Doctor of Science) degree, again from Cambridge.

His book, "The Ultimate Fate of the Universe", published from Cambridge University Press in 1983, was a treatise on the possible futures of our universe and made an impact of the scientific community. Later, the book was translated into Japanese, French, Italian, Portuguese and Yugoslav. With Dr. WB Bonnor, he edited the "Classical General Relativity" in 1984 and the "Rotating Fields in General Relativity" in 1985. Cambridge University Press published all three books of his. All three are included as textbooks in Cambridge, Oxford, Princeton, Harvard and numerous other prestigious institutions.
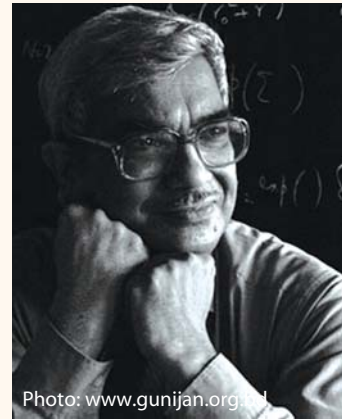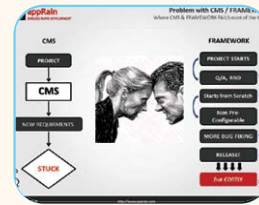
The books he has written in Bangla are no less important, however. Particularly noteworthy are "Black Hole", published from the Bangla Academy, "The Mother Tongue, Scientific Research and other Articles" from Rahat Publishers and "Art, Literature and Society" from Siraj Publishers. The latter two are compilations.

Two of his articles are particularly renowned; "The Ultimate Fate of the Universe, Sky and Telescope" was later translated into Spanish, whilst "The Far Future of the Universe, Endeavour" was published in German, Dutch and Italian science journals. His research papers, meanwhile, are too numerous to list here.

Dr. Nazrul Islam used to be a staff member of the Cambridge University Institute of Theoretical Astronomy. He has served as visiting professor, staff member or Lecturer at many well-known institutions, from King's College in London to Princeton Institute for Advanced Studies in America. In 1984, he resigned his professorship at Cambridge to join Chittagong University in Bangladesh as professor.

Responsive Government

Total Nominations
None

Champion
None

Runner Up
None

Special Mention
None

Finalist
None

Vibrant Private Sector

Total Nominations
15

Champion
appRain Content Management Framework
Mohammad Reazaul Karim

Runner Up
Bangla Spell Checker
Ankur ICT Development Foundation

Special Mention
None

Finalist
None

e-Science & Technology
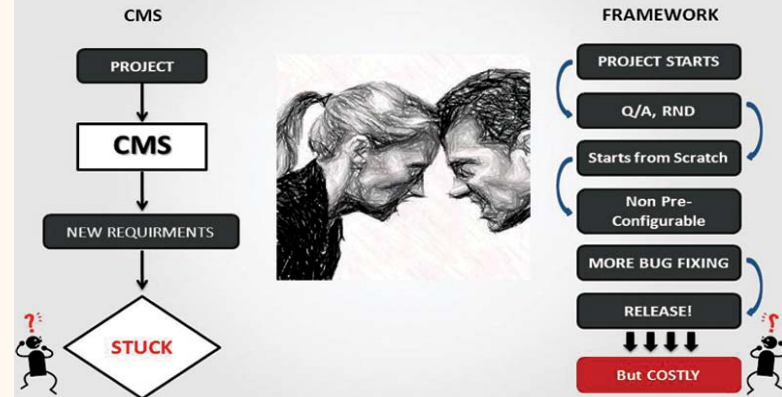
Champion

APPRAIN CONTENT MANAGEMENT FRAMEWORK

appRain is one of the first officially released Open source Content Management Framework (CMF). CMF is a new web engineering concept where "CMS (Content Management System)" and "Framework" perform together to produce endless varieties of output in a very limited time. appRain, published with lots of extensive features to reduce our development work time. It is able to satisfy both Client and Developers with a safe and quality output.

From the beginning of web-based software development developers tried to make this process easier so software scientists developed a tool called CMS (Content Management Frameworks). CMS always work with some conversions and per-defined rules. So if customer's requirement goes beyond the conversions then project get stuck. Later on, a new strong tool came in market called Framework (Rapid Development Framework). In Framework, project development never stuck but become costly because it contains all Programmer Oriented basic modules so web development became lengthy. To overcome this challenge appRain brought these two tools in a single platform and makes the development faster as well as scalable.

appRain is first popular "Free and Open Source" Web Based software development tool from Bangladesh, which is going to make Bangladesh an ICON in outsourcing market. It will become very easy to collect job for any Bangladeshi freelauncher or Software Company in Web Based Software Outsourcing.

Name of Initiatives
appRain Content Management Framework
Owner
Mohammad Reazaul Karim
Nomination Submitted by
Mohammad Reazaul Karim
Contact Person
Mohammad Reazaul Karim
Contact
GP Cha-6/1(2rd Floor) Mohakhali, Dhaka, Bangladesh
Phone
+8801717403818
E-mail
reazulk@gmail.com
Format
Web/Internet
Language
Bangla & English
URL
www.apprain.com

Name of Initiatives
Bangla Spell Checker
Owner
Ankur ICT Development Foundation
Nomination Submitted by
Ankur ICT Development Foundation
Contact Person
Mahay Alam Khan
Contact
House#65, Road#6, Sector#4, Uttara
Phone
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E-mail
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Format
Bangla Unicode
Language
Bangla
URL
www.ankur.org.bd

e-Science & Technology

Runner Up

BANGLA SPELL CHECKER

Bangla Spell Checker is a well structured Unicode based spell checker which can be used with Open Office and Firefox. This is the first ever successful Bangla Spell checker. It could successfully check wrong Bangla words typed in Unicode and marks with red underline. This spell checker also shows alternate words when mouse pointer is clicked over the wrong words. Currently it has more than 5,50,000 words dictionary.

This technology is highly required for the professional who is working with Bangla typing. The spell checking technology becomes a vital as Unicode based Bangla typing is being used widely. Bangla Spell checker successfully works with OpenOfficeOrg, FireFox, and email client ThunderBird. This project has been expanded for Bangladeshi Microsoft community.

This software is free and available online. It is included by default with Firefox Bangla. There is an option to add new words in the Spell Checker. One can easily add necessary correction of Bangla words in it. This feature made it more convenient to use it in Bangla computing and ensure easy writing with correct Bangla words.

Responsive Government

Total Nominations
None

Champion
None

Runner Up
None

Special Mention
None

Finalist
None

Vibrant Private Sector

Total Nominations
05

Champion
Transformer Protection from Unauthorized Person
Engr. Tanvir Ahmed Chowdhury

Runner Up
None

Special Mention
None

Finalist
None

Name of Initiatives
Transformer Protection from
Unauthorized Person
Owner
Engr. Tanvir Ahmed Chowdhury
Nomination Submitted by
Engr. Tanvir Ahmed Chowdhury
Contact Person
Engr. Tanvir Ahmed Chowdhury
Contact
B - 1, Rose Dale Apartment, 178 Green
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E-mail
tan.aiub@gmail.com
Format
GSM System
Language
Bangla & English

m-Science & Technology

Champion

TRANSFORMER PROTECTION FROM UNAUTHORIZED PERSON

Stealing of electrical transformer is a great problem in rural Bangladesh which is affecting both the consumers and authority. `Transformer Protection from Unauthorized Person' is a device, which has been built to protect transformer from unauthorized person. This device already becomes popular in rural areas, especially areas controlled by REB (Rural Electrification Board).

If any unauthorized person disconnects the transformer the system sends a signal directly to the central control room or local control room (in charge of the transformers of a particular area). After identifying problem of the particular transformer local authority can take action. Transfer protection device also helps them to track the transfer.