Over 3 Lakhs Herbarium specimens now get a digital home. Bito developed scientific database for herbarium specimens and make it available online.

CSIR-National Botanical Research Institute is a National Research Institute situated in heart of Lucknow.

CSIR-NBRI is a national level research institute and has a primary focus on plant science. NBRI has a vast collection of herbarium specimens collected from all over the world. All specimens have limited access for institute only. Institute wants to make this collection visible to all over the globe. So, the people can get benefitted by the work of the institute. People around the world working in plant science can access this portal and get specimen info. Bito Successfully developed and delivered the scientific portal.

Creating a scientific database is always a challenge as you must have a clear and sound knowledge of the particular science field to develop the database. In herbarium database to make the data uniform, easy to use, easy to identify and easy to manage a lot of efforts has been done.

Key Challenges

- Create a solution where identifying the individual specimen should be digitized.
- Must store high resolution images for specimen
- Herbarium portal must have a sound search engine.
- Keeping the data secure while providing access to online users.
- Take care of specimens as specimens are very delicate and aged also.

CSIR-NBRI Implemented a Barcode based specimen identification for this scientific database

Key Deliveries

- Application for barcode generation
- An admin panel to manage all specimen data.
- Facility to get high resolution image of specimen
- Online portal for herbarium
- Member login section to access the high-resolution images

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