



J-HUB, JNTUH

News Letter for the Year 2020-21

Director's Message

JHUB is a University's Innovation Ecosystem envisioned to nurture the culture of Innovation, excitement in creating new products and solutions to real time problems for the benefit of the society. It's an opportunity for students to try out their first venture while on campus. It is a unique platform of programs, networks, mentors and facilities to test their innovation mettle and tech startup incubation.



Vision

J-Hub is envisioned to be recognized as a leading hub of innovation, research translation, tech-product development and knowledge intensive tech-startup incubation.

Mission

The mission of J-Hub is to nurture and catalyse ideas, match the strength of student talent and R&D across the university with the entrepreneurship and networking opportunities in the region and globally to incubate tech-enterprises and solutions.

J-HUB Goals

Short-Term Goals:

1. To seed innovation and entrepreneurial spirit in all the engineering graduates of the university.
2. Develop in graduates knowledge, understanding and skills from different disciplines to design and create products impacting the quality of the graduates coming out of the university.
3. Identify brilliant ideas and support translation of such ideas to successful products.

Long Term Goals:

1. To incubate tech-enterprises out of research findings that will promote technological innovation.
2. Collaborate and co-work with relevant stakeholders on innovation and entrepreneurship development for tech-enterprises.
3. Develop a complete innovation eco-system to build in students entrepreneurial confidence and incubate tech-startups.
4. To become the focal point for tech-solutions and tech enterprises.
5. To attain Self-Sufficiency in conducting all activities planned in J-Hub

About JHUB

The JNTUH -Innovation Hub (J-Hub) is a University Wide Innovation Initiative that fosters the culture of Innovation and empowers creative graduating engineers, faculty, research scholars and alumni to pursue innovation, applied research and knowledge intensive tech-startup incubation.

The Innovation Hub offers access to its stakeholders, a spectrum of programs, experts, labs, collaborators, networks and spaces to catalyze innovation, knowledge intensive businesses and tech-enterprises and concurrently equips the graduates with skills to compete for and succeed in high demand jobs.

Model of J-Hub

Launched in January 2018. J-HUB works in a Hub and Spoke model with JLABS at constituent and affiliated colleges to seed the dynamic culture of innovation and the central JHUB at the University campus to develop the

knowledge, skills and experiences in translating ideas to products and start-ups. Around 90 constituents/Affiliated colleges have established J-Labs to seed in the dynamic culture of Innovation and host a calendar of events to advance the University's strategic objective to achieve excellence through innovative mindset. Winning teams from college level get deeper enblement and focussed help at university campus to catalyse ideas, match the strength of student talent and R&D across the university with the entrepreneurship and networking opportunities locally, national level and globally to incubate tech-enterprises and solutions critically relevant to the society.

Activities

A Series of Technical Bootcamps have been conducted at various colleges to prepare the students for tech products development.

1. Bootcamp on AI with IBM Watson at JNTUH, Sultanpur during 02 January 2020

A total of 260 students registered for the workshop

Bootcamp on AI with IBM Watson at JNTUH, Sultanpur during 02 January 2020				
TIME TABLE				
Sl. No.	Date	Session topic	Time	Name of the Resource Person
1	02.01.2020	Introduction to AI Applications of AI,	09.30 a.m.-11.00 a.m.	Surya Tej Mahankali
2	02.01.2020	Introduction to Chatbot Architecture of Chatbot	11:00 a.m.-12.30 a.m.	Nagarjuna.M
3	02.01.2020	Explore IBM cloud Explore IBM Watson Assistant	1:30 pm to 3:00 pm	Nikhil Gurrum
4	02.01.2020	Introduction to Node-Red, Explore IBM Watson Assistant	03.00 p.m.-4.30 p.m	Marepalli Narsimulu
5	02.01.2020	Integration of Chatbot to Node-Red, Working with Speech to Text Service.	04.30 p.m.-06.00 p.m	JayPrakash
6	02.01.2020	Supporting on the above, during Sessions	09.30 p.m.-06.00 p.m	Vinay Kumar

Overview of Bootcamp

This Bootcamp is a 1-day hands-on event to help Students to understand IBM's Watson AI/ML Platform. Additionally, this Bootcamp will discuss about Real time applications of AI/ML Importance and Impact of AI/ML Fundamentals.

The Bootcamp includes lectures, discussions on how Watson works, and hands-on exercises that developers can use to better understand what Watson does, what it doesn't do, and how it works so that developers can build best solutions for the industry needs.

Theory sessions covered in Bootcamp

- The differences between Artificial Intelligence, Machine Learning, and Cognitive Computing
- Applications of Artificial Intelligence
- IBM's Point of View on Cognitive Computing
- IBM's Differentiation in the Artificial Intelligence Marketplace

Intensive Practical sessions during Bootcamp

The sessions involved a lot of hand-on training in the following topics:

- IBM Watson Developer Cloud Services
- IBM Watson Conversation Service (Watson Assistant)
- IBM Watson Natural Language Understanding
- IBM Watson Discovery
- IBM Watson Visual Recognition
- IBM Watson Speech to Text
- IBM Watson Text to Speech
- Build AI enabled solutions using IBM Watson
- IBM Code Patterns

Takeaways to Students

The students had hands-on sessions, expert talks and feedback loops. Some of the key outcomes were:

- IBM CLOUD – Exposure to Access cloud got aware of services available in cloud, how to use and store data on cloud.
- Increases the CREATIVITY and INNOVATION quotient of the students.
- TEAMWORK & COLLABORATION has been instilled both in terms of working with friends and complete strangers.
- TEAM DYNAMICS – Managing the pros and cons of working in a team, working with a team lead, becoming a leader himself and leading from the front.



2. Workshop on AI/ML at J-HUB JNTUH during 09-11 January 2020

The J-Hub, JNTUH organized Workshop on AI/ML during 09-11 Jan 2020. A total of 380 students registered for the workshop from 23 Colleges



3. Bootcamp on AI with IBM Watson at JNTUH CEM, Manthani during 21 January 2020

A total of 81 students registered for the workshop.

Bootcamp on AI with IBM Watson at JNTUH,Manthani during 21 January 2020				
TIME TABLE				
Sl. No.	Date	Session topic	Time	Name of the Resource Person
1	21.01.2020	Introduction to AI Applications of AI,	09.30 a.m.-11.00 a.m.	Surya Tej Mahankali
2	21.01.2020	Introduction to Chatbot Architecture of Chatbot	11:00 a.m.-12.30 a.m.	Nagarjuna.M
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4. Bootcamp on AI with IBM Watson at KITS, KHAMAM on 17 FEBRAURY - 2020

A total of 490 students registered for the workshop.

Bootcamp on AI with IBM Watson at KITS,KHAMAM on 17 FEBRAURY 2020 TIME TABLE				
Sl. No.	Date	Session topic	Time	Name of the Resource Person
1	17.02.2020	Introduction to AI Applications of AI,	09.30 a.m.-11.00 a.m.	Surya Tej Mahankali
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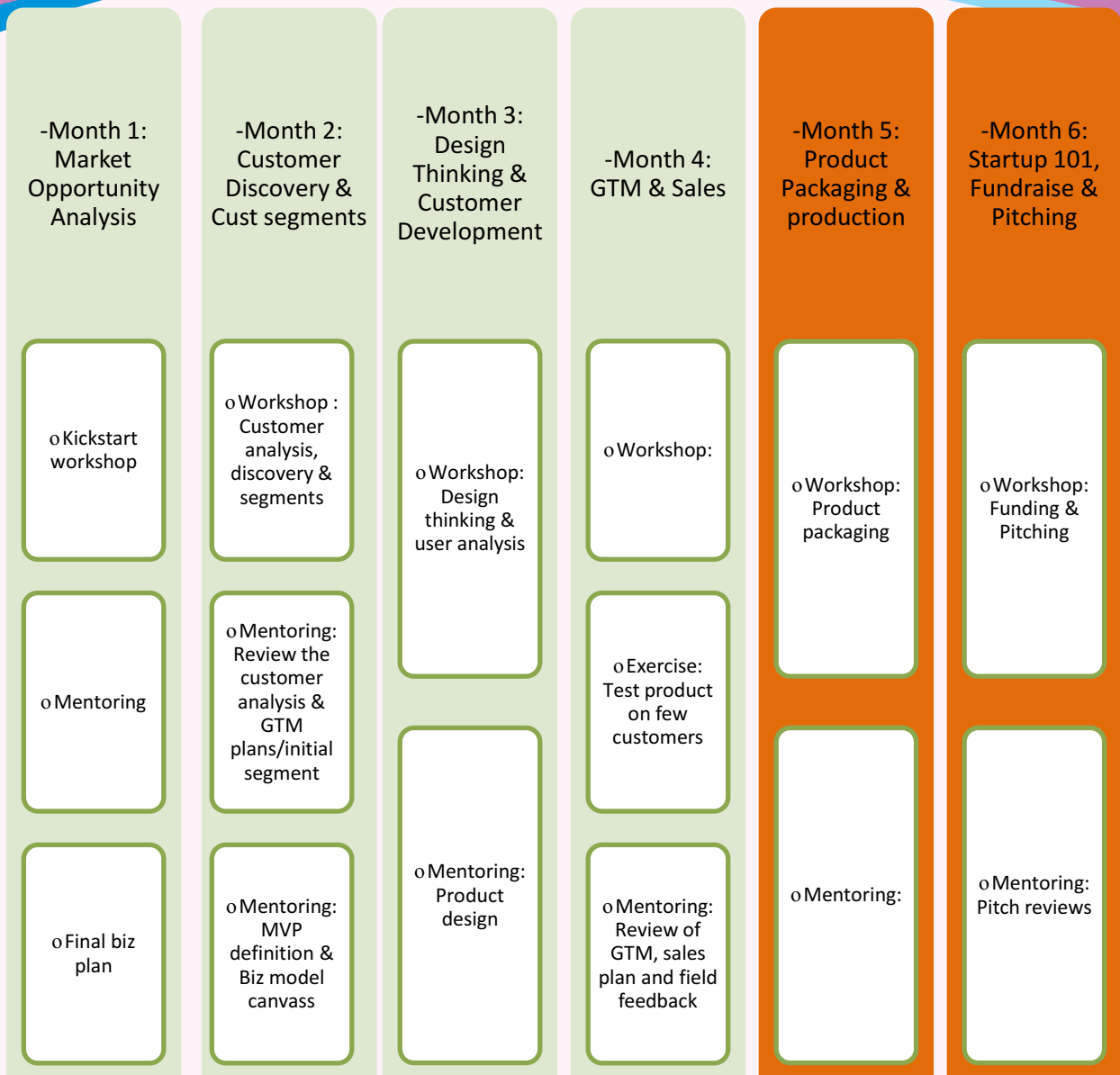


5. J-HUB Startup Accelerator program

J-HUB, JNTUH has been established to provide the culture of Innovation, Tech product development and startup incubation.

Accelerator program is one of the Intervention program conducted at J-HUB to help students convert their prototypes to products. Seven teams who have prototypes built during EXCITE workshop are selected for the accelerator program. Face to face and the video conferencing interact with mentors/students.

The schedule of the program is as follows.



During the month from October 2019 to January 2020 the teams have worked on the modules GTM and sales, customer development, product packaging, one to one mentoring was provided to the teams on the aspects of unique value proposition, application for funding, webinar and video recording was done and important phases of problem identification.

The first version of product was built testing on the first version of the product is done with users. IPR filing process is under way.

The following is the list of team / ideas admitted.

1. Sparcar – A parking solution for inadequate parking lots for cars
2. Talking Fingers - AI based sign language to audio conversion system to help dumb people communicate effectively
3. Automatic book Lending machine – A Kiosk for automatic book lending and return in Libraries
4. Compact Bin – Plastic waste management System
5. iNetra - Connecting the rural patients to Expert ophthalmologists for early detection of eye diseases
6. SmartAir purifier – An economical air purifier for congested and polluted places
7. Smart Band for senior citizens - A gesture based IoT device for senior citizens to aid communication and fall prevention.



During the final phases of the accelerator program technical sessions and mentoring on topics related to Product Packaging & production and Fundraise & Pitching have been conducted a total of 12 sessions have been organized.

6. J HUB Hackathon League Central Bootcamp

We successfully completed J HUB Hackathon League Central Bootcamp. We gave it a grand ending with The Grand Finale.

10 Finalist Teams were chosen out of over 3500+ participants in 22 hackathons held across Telangana. Keeping up the spirit of innovation, we tackled the Covid-19 Situation by moving the bootcamp online and had the students trained in Entrepreneurship, Product Management and Business skills by the best in the fields. Our Teams pitched 10 state of the art tech products to help the world tackle Covid-19. This is not the end but only a beginning to many more such never before programs.

22 Hackathons
3500+ Participants
450+ Ideas
10 Finalist Teams
1 Bootcamp



The Grand Finale of our Central Bootcamp was a truly grand ending to the J HUB Hackathon League 2020. We want to sincerely thank our Grand Jury who played a huge part in this.

THE PANEL :

1. Vinay Kumar - Director of Eternal Green and CEO of Datawise
2. Prabhavathy Adavikolanu - Engineering Director, Intel
3. Ramjee Pallela - COO, Atal Incubation Centre CCMB
4. Sridhar Chundi - Head, CTO Incubation Group TCS
5. Vijay Bawra - Program Manager, Amazon
6. Harshita Sangneria - Associate, Mynta Capital



Since its inception, JHUB has been committed to nurture the innovation mindset in students across Telangana and play an active role in growing the innovation ecosystem of JNTUH. JHUB has launched numerous competitions, hackathons, bootcamps, accelerator and incubator programs in this manner.

The JHUB Hackathon League 2020 and the Central Bootcamp 2020 were a part of this. We sincerely want to thank the mentors of the Central Bootcamp, who have guided 250+ participants selected from 3500+ students, and helped in their way to reach The Grand Finale and come up with 10 amazing products to tackle the Covid-19 situation.

Mentors for the Central Bootcamp 2020 :

1. Dr Radhika Meenakshi - Founder, Wise Owl Consulting
2. Ganga Charan Gopisetty - Chief Architect, SAP Labs
3. Ramana Valluri - Product Manager
4. Deepak Pelluru - Strategic Advisor, Alpha Intelligence
5. Sandeep Naidu Pamidiparthi - Research Associate, UoH



Summer Programs at JHUB

JHUB established in the year 2018 was envisioned to nurture the culture of Innovation, tech product development and startup incubation. The Summer Programs conducted at JHUB annually are a culmination of the year long activities seeding innovation at JLABS and mentoring at JHUB.

EXCITE 2020:

The flagship program EXCITE – A six week product engineering workshop was held between 17th June 2020 and 30th July 2020. Select teams from over 22 hackathons hosted by JLabs have been admitted to the workshop. Between Nov 2019 and Feb 2020 the Jlabs at various institutions have hosted Hackathons on the Theme “ Sustainable Development Goals” . The top 3 teams of the hackathons have started the product journey at EXCITE 2020.

From nearly 4000 hackathon participants and more that 450 demos, 63 teams are shortlisted for the workshop. Each of the Six weeks has been themed with the phase in product development, PROOF OF CONCEPT, MARKET RESEARCH, FIRST PROTOTYPE, CONCEPT MAPPING, BUSSINESS ANALYSIS, FINAL DEMO. 17 of the 63 teamshav been shortlisted for the semifinals and 11 teams are competing for the promising product category.

Team No.	Product Name	Position	Name of the College
EX-02	Online Voting System	FIRST	Malla Reddy Engg. College for Women
EX 09	Monstograin	SECOND	Vidya Jyothi Institute of Technology
EX 22	Histor-ER	THIRD	Malla Reddy Engg. College for Women
EX 01	New-Gen Faucet	FOURTH	Sreenidhi Institute of Science and Technology
EX 11	SD-BELT	FIFTH	Sreenidhi Institute of Science and Technology
EX 23	EDU-AR	SIXTH	Vidya Jyothi Institute of Technology

During the program the participants had an opportunity to interact with 45 speakers from Industry and Innovation and Startup ecosystem and 15 entrepreneurs. More than 50 hrs of mentoring by able mentors with an average experience of 18 years in Industry on Commercial product development has been received by the teams.

ENLITE 2020:

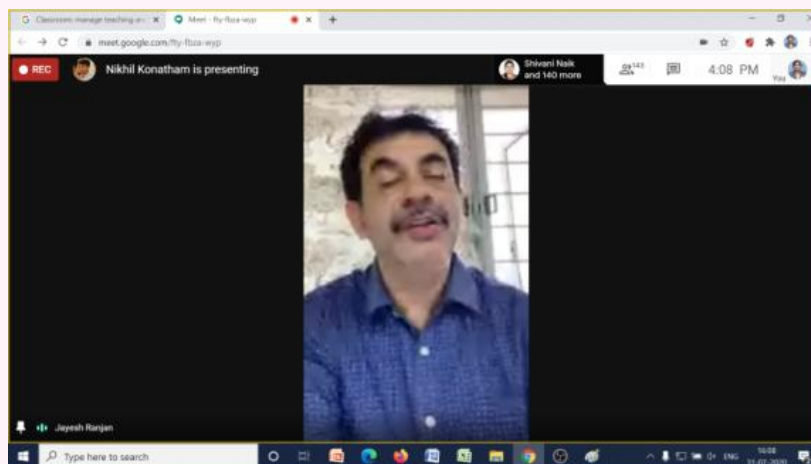
ENLITE 2020 is a bootcamp on Entrepreneurship targeted for 2nd year students wherein they learn a game “VENTURE VOYAGE” designed by National Entrepreneurship Network of Wadhvani Foundation. The program featured sessions on Design Thinking, Team Building, Ideation, Opportunity Analysis, Business Modelling, Market Analysis, Finance Modelling. A unique feature of the program is that each day a early stage startup founder referred as E-Cub shared their story to the participants. The program was conducted between 29th June 2020 and 4th July 2020.

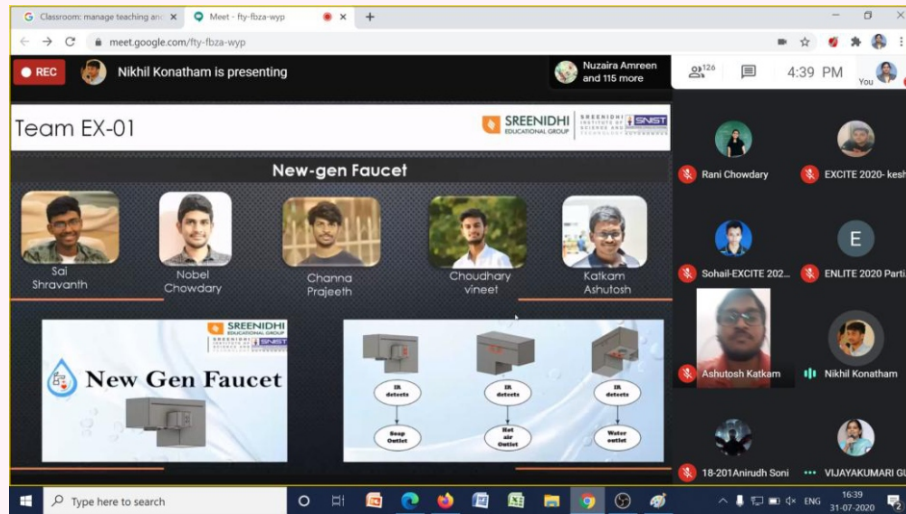
IGNITE 2020: Is the first intervention program to B.Tech I year students. Students nominated from JLABS camp at JHUB for 3 days to start their innovation Journey. IGNITE 2020 received 1147 nominations from the colleges. It featured case studies and teaser events on Innovation. 280 participants have successfully participated in the challenge of Problem finding and prototyping. It was held between 24-26 July 2020.

We know we are facing a challenge which disrupted ways the workshops are held. JHUB remains committed to support innovations, generate excitement and allow you to be connected from a distance. All the programs are conducted online through google classroom and Google Meet.

Hon' ble Vice-Chancellor i/c JNTUH and IT secy Govt of Telangana, Shri JayeshRanjan IAS delivered the valedictory address.

The tenacity, Adaptability and talents of the participants is commendable and we remain committed to celebrate the accomplishments and success of the batches EXCITE, ENLITE and IGNITE 2020.





PRODUCT ENGG WORKSHOP:

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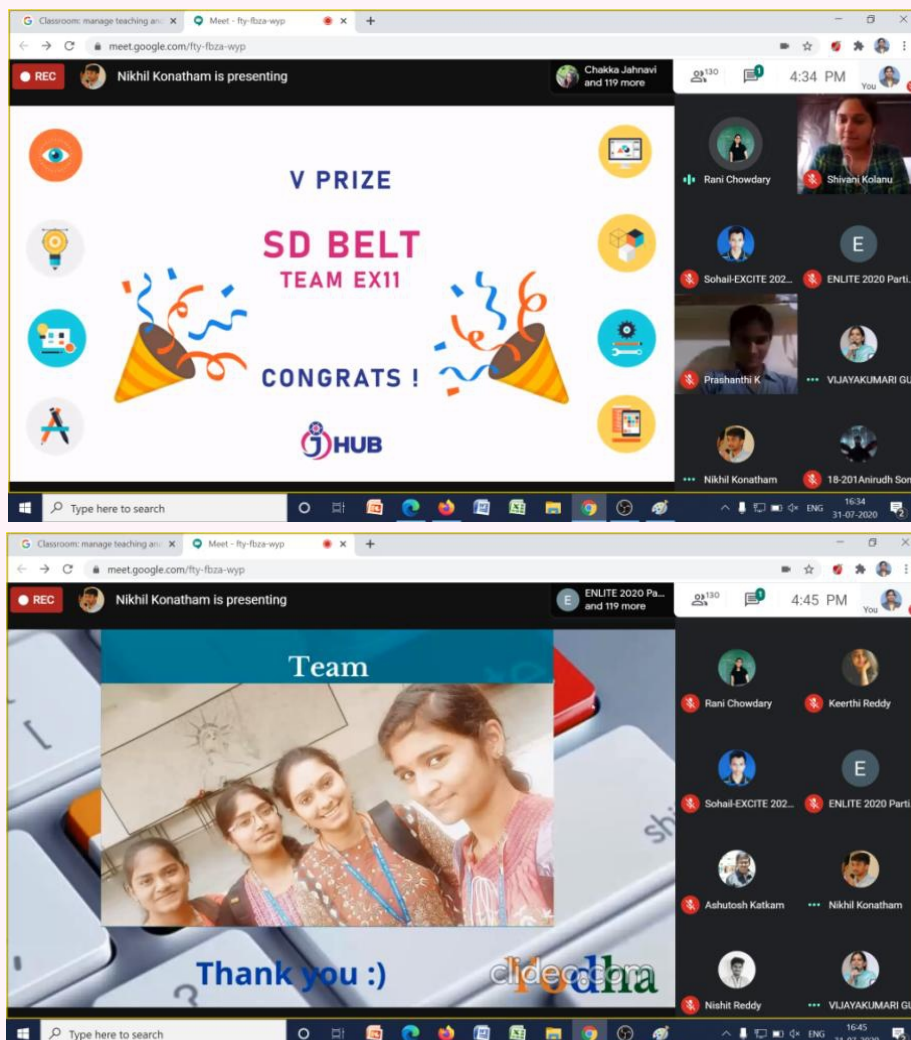
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Some of the Snippets



Other Achievements

The Atal Ranking of Institutions on Innovation Achievements (ARIIA) -2020 has been announced on 18th August 2020 by the Hon'ble Vice-President of India. JHUB JNTUH has secured position in **Band A** (Rank 6 - 25) under Govt and Govt. Aided University category.



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