Computer Society of India

Sardar Patel Institute of Technology Student Chapter

Annual Report
2022-2023

SARDAR PATEL INSTITUTE OF TECHNOLOGY
Andheri (W)
Mumbai-58

Code Housie 2023

To mark the beginning of its new term of 2022-23, C.S.I S.P.I.T. organized "Code Housie"- a purely coding-based event that inculcated the rules and pattern of the classic game of Housie. The event was aimed at Second Year students.

Students participated in teams of two. The participants were given a housie ticket which consisted of two rows with 3 question numbers in each row. They were required to program solutions to problems corresponding to the numbers on their ticket on the HackerRank platform. The teams which could solve questions of either the "First row", or "Second row" or were able to solve all the questions i.e "Full House" in the shortest amount of time were declared as the winners. The problems involved string patterns, logical reasoning as well as basic math and data structures or required applying well-known algorithms to crack the code.

The event was conducted in the labs of S.P.I.T (406, 408, 409, 410 A, B, C) with a participation of 59 teams (118 students).

The event concluded after one and half hours of intense coding with 5 claims for the First Row, 9 claims for the Second Row, and 1 Full Housie which was bagged by the team of Navneet Nair (SE) and Faiz Khan (SE).

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Chaudhary

Insight - An Off-Campus Internship Seminar

An event truly insightful at heart, C.S.I S.P.I.T in collaboration with IIC S.P.I.T, conducted a seminar - Insight for the students of first, second, and third years.

A panel of three of our fourth-year students was invited to share their overall experience in engineering and their journey to cracking the toughest interviews in top tech companies. The panel included Jash Jain (upcoming intern at Amazon UK), Kashish Jain (intern at Goldman Sachs), and Samkit Shah (ex-intern at Meta UK and upcoming intern at Amazon UK) from BE COMPS. The seminar's highlights focused on bagging off-campus internships and what preparation went behind cracking these interviews. The students were given preparation tips and the areas they should focus on in their initial years of engineering to be internship ready.

The event concluded after one and a half hours after a doubt and Q&A session with the audience.

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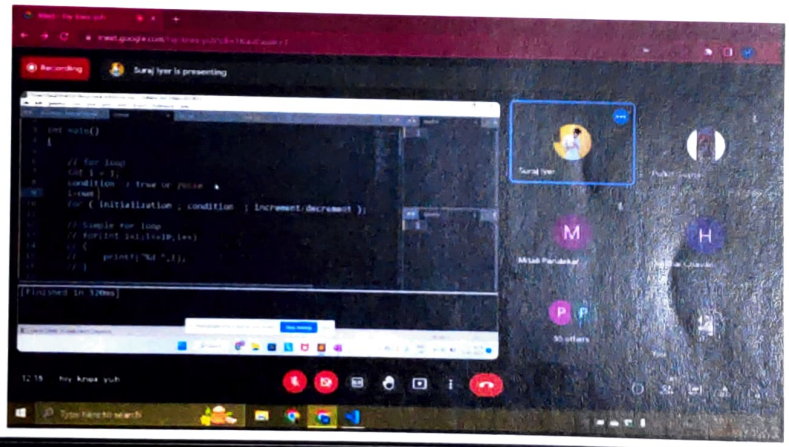
C Workshop

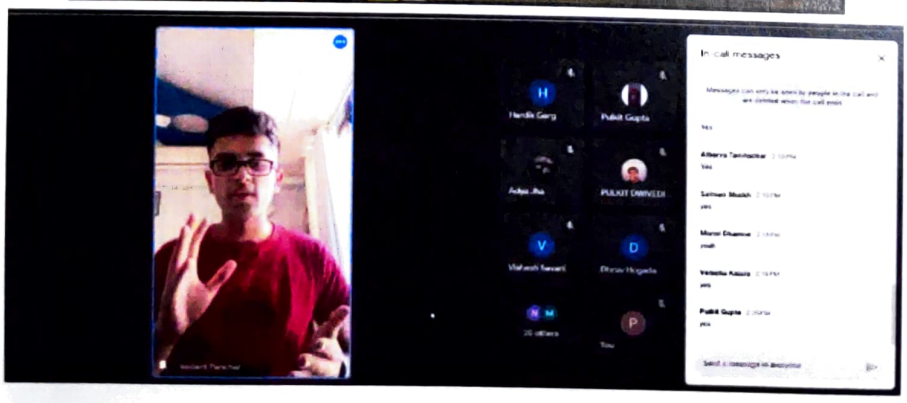
C.S.I- S.P.I.T. conducted the annual C workshop for first-year students.

The workshop was conducted with the aim of creating a coding culture among students and introducing them to the world of coding. The workshop focused on topics like data structures, taking input from users, arrays, loops, strings, malloc, file management, and pointers in C. It aimed to create a strong foundation in coding which would help them throughout their career.

The workshop was conducted by 6 second-year students who took alternative turns every weekend for 3 weeks with a participation of over 100 students in an online mode on Gmeet.

The workshop was also followed by a one-on-one doubt session where students could get their doubts cleared and were also provided reference material along with a set of problems that helped them retain the knowledge gained.





S.P.I.T Hackathon

S.P.I.T Hackathon, the flagship event of C.S.I S.P.I.T, in association with The Students' Council S.P.I.T, was successfully conducted on 4th-5th February 2023 at Sardar Patel Institute of Technology in Mumbai, India.

The event attracted over 1500+ registrations from all across India for the first round which was an online abstract submission round, out of which 42 teams were shortlisted for the on-site hackathon. The hackathon commenced with an opening ceremony at 9:00 AM that included lighting the lamp and inaugural speeches by Dr. B.N. Chaudhari, Principal of S.P.I.T, Dr. Y.S. Rao, Dean of Academics of S.P.I.T, and Prof. Kailas Devadkar, the faculty mentor of CSI S.P.I.T.

After the technical team explained the problem statements to team leaders from 10:00 to 11:00 AM, the coding round started at 11:00 AM sharp. Participants were provided with meals and refreshments at regular intervals. Two mentoring rounds were also conducted both offline and online for the participants to get clarity about their ideas and implementation.

The teams worked tirelessly throughout the night and submitted their final commits on GitHub before 11:00 AM the next morning. They were also required to submit a presentation explaining the functionality of their project and its future scope.

Judging round 1 was held immediately after coding time ended, and the top 10 teams were shortlisted for the final round. The final judging round commenced, and the Top 3 teams, along with teams with the Best Pitch, Best UI/UX, and Best FOSS Hack, were felicitated with prizes at the closing ceremony.

The event was a grand success, providing a platform for budding developers to showcase their talents, and the participants gained valuable experience and exposure to the latest technologies. The event ended with a vote of thanks, with participants and organizers eagerly looking forward to the next edition of the S.P.I.T Hackathon.

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Mentors

Name	About
Abhishek Gangan	SDE @ Amazon
Ujala Jha	Associate @ J.P. Morgan Chase, Three-Time SIH Winner
Shloka Shah	SDE II @ HackerRank
Sakshi Malik	Product Manager @ Google
Shams Rizvi	SDE @ Concentric AI
Anish Rane	Blockchain Developer @ Xfinite
Khushi Jashnani	Software Engineer @ J.P. Morgan Chase
Chirag Jain	Software Engineer @ J.P. Morgan Chase
Rishi Kaul	Technology Analyst @ Deutsche Bank
Luv Gupta	Security Engineer

Judges

Name	About
Abhishek Gangan	SDE @ Amazon
Gopala Dhar	AI Engineer @ Google
Vivek Yadav	Google Developer Expert, Lead Mobile Dev @ Zest Money
Ujala Jha	Associate @ J.P. Morgan Chase, Three-Time SIH Winner
Shloka Shah	SDE II @ HackerRank
Arbaz Khan	Co-founder & CTO @ LineupX
Vinod Reddy	Co-founder & CTO @ Buyceps
Sandeep Meshram	Software Architect @ RBI

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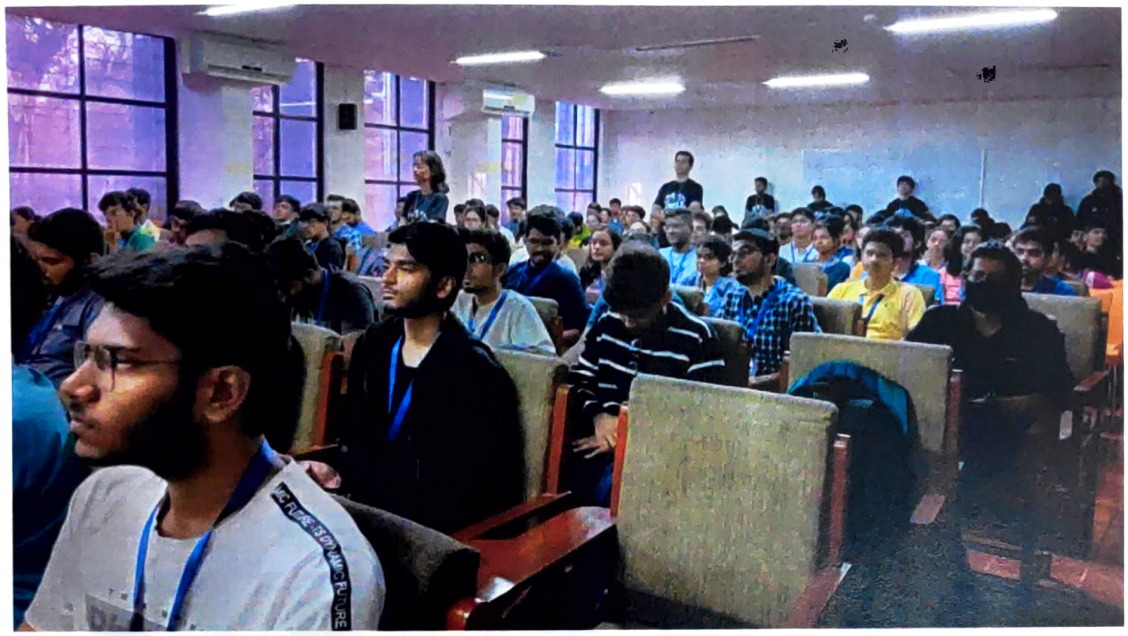

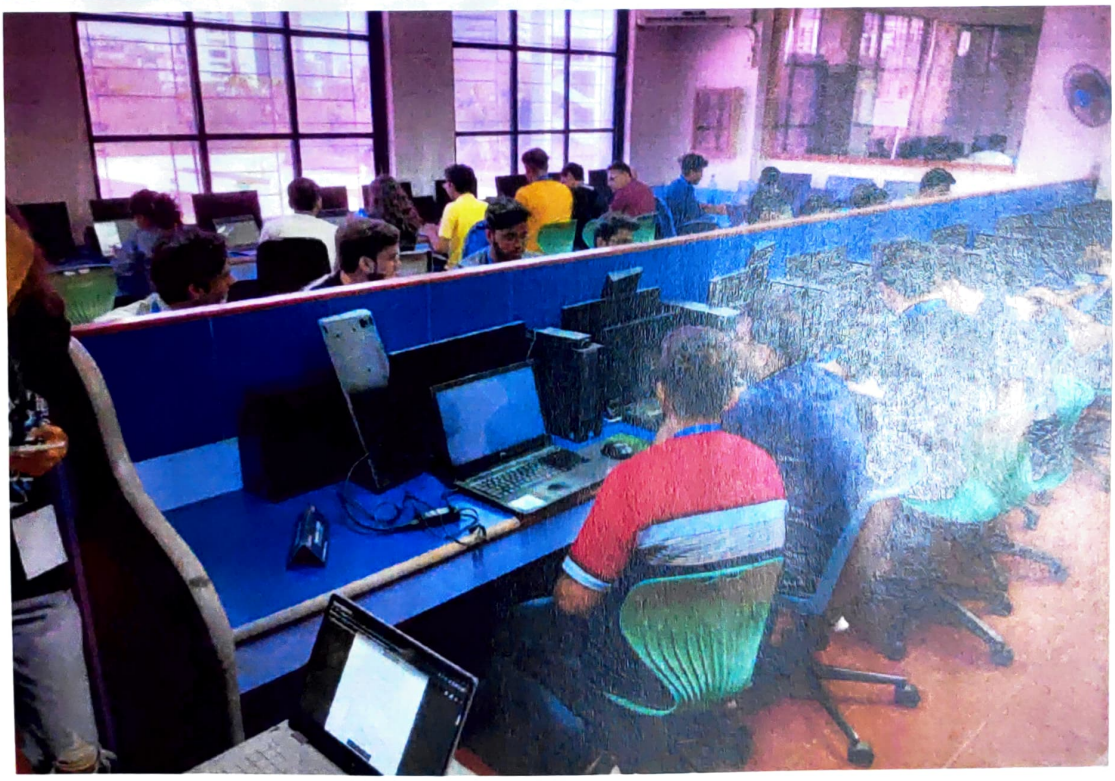

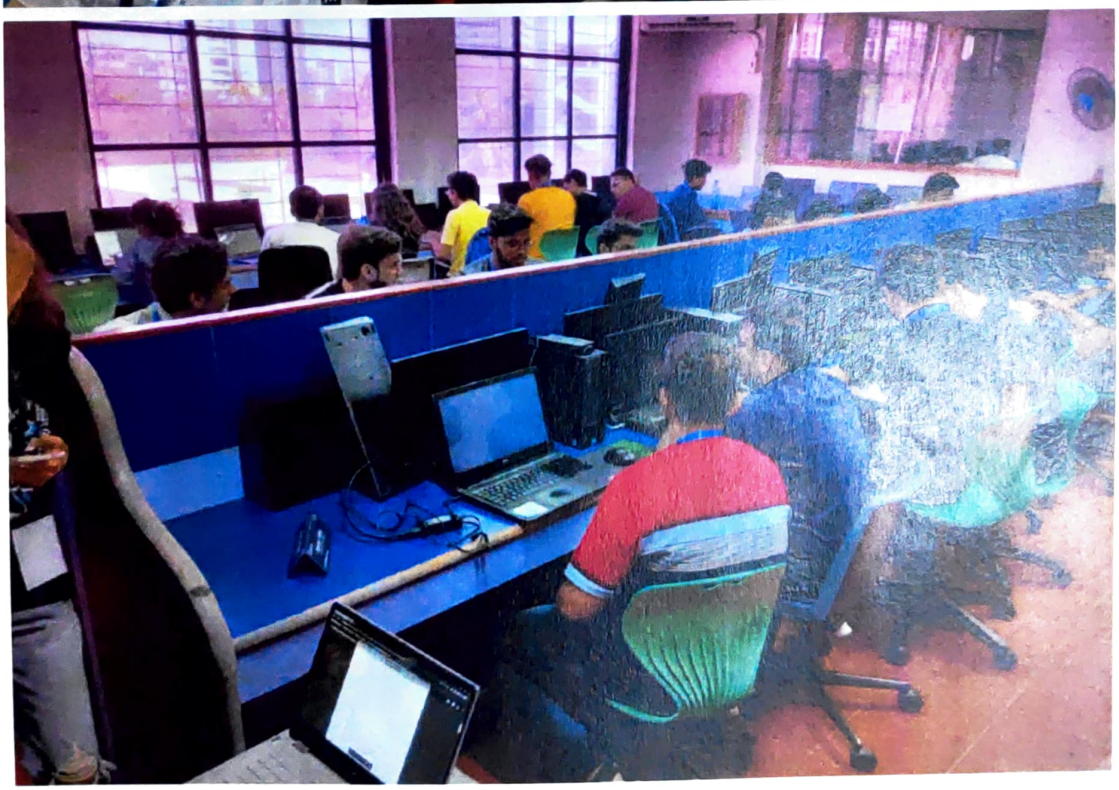

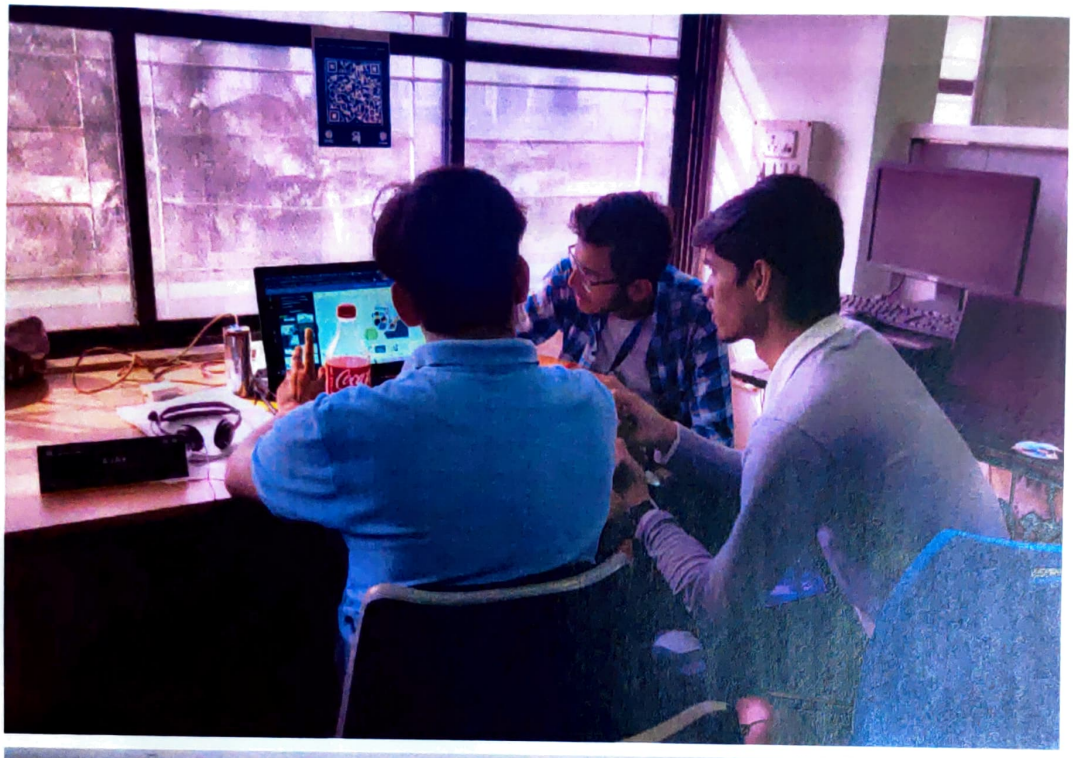

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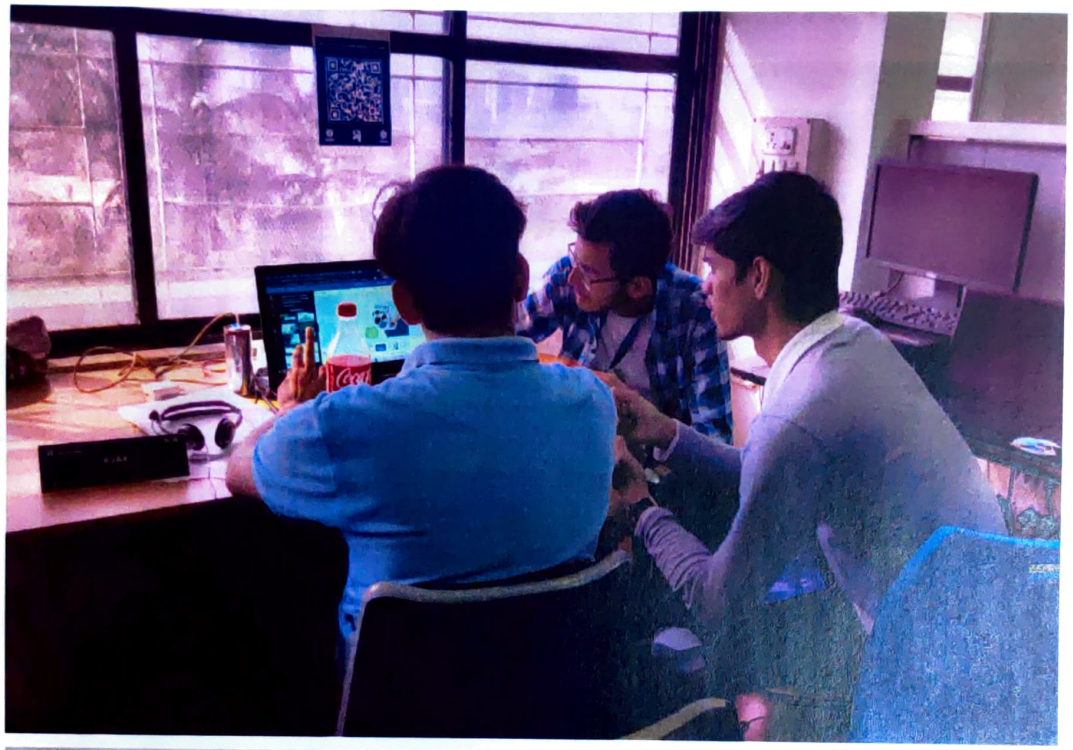

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Competitive Programming with Priyansh Agarwal

With the aim of increasing the coding culture in our college, CSI-SPIT conducted a Competitive programming workshop with Priyansh Agarwal.

Priyansh Agarwal is a well-known Competitive programmer who is an AIR 1 at Google Kick Start, ICPC Asia West Continent Finalist, and a Former Goldman Sachs Intern along with a massive following on Linkedin - 95k and Youtube - 45k subscribers. He is also the founder of TLE Eliminators- a startup that aims to help students achieve milestones in the field of competitive programming.

The workshop was a 2-day event with Day 1 being a talk show where Priyansh shared his journey in cp, how he went from 0 to master on CodeForces, his entrepreneurial journey of TLE Eliminators, and how he managed it alongside the hectic curriculum of IIIT Delhi.

Day 2 of the event covered a workshop on competitive programming which was followed by India's 1st CP Hackathon. It was one of a kind hackathon that included 40 questions on CodeForces handpicked by Priyansh himself and it covered all important topics required to kickstart their cp journey. It was followed by a 5 hr long coding hackathon to determine the winners.

This event was conducted on the 18th and 19th of March 2023 and saw the participation of around 200 students from all over the state of Maharashtra.

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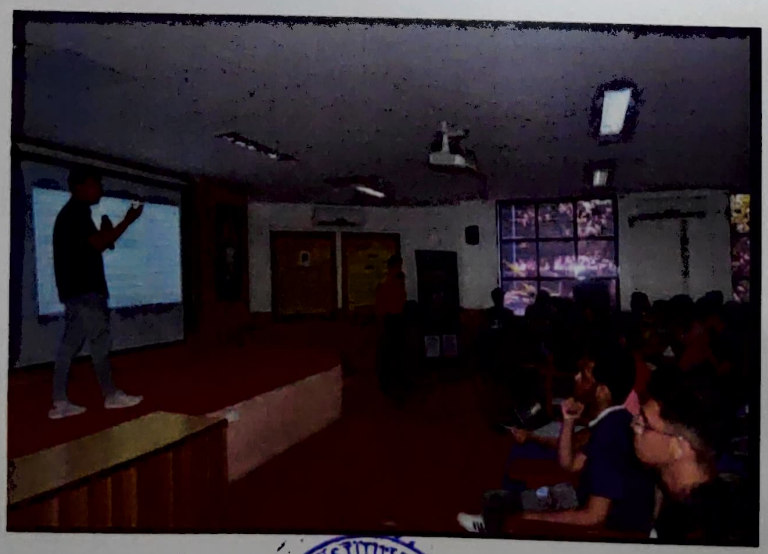

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TakeDown 2023

To provide the first years of our college with a platform for competitive programming, C.S.I. S.P.I.T. organized 'TakeDown 2023' - a puzzle-based coding event that makes competitive programming truly competitive.

Students participated in teams of two or solo. Teams were randomly placed in matches against each other and both teams in a match were given the same problems to solve. The team which cracked the problem first received 10 points while the other received an X, post which both teams were assigned new matches. Any team that received three Xs was out of the tournament and matches continued until a single team remained.

The problems themselves were string pattern problems. The teams are given a set of sample inputs and outputs as strings. The teams had to decipher the pattern and write a program that converts any such general input to an output using the correct pattern or cipher. Simply put, they had to write a program that converts a given input to a given output.

The event was held in the S.P.I.T. Computer Labs (404, 406, and 408) and took place through the custom 'TakeDown Web Application' developed by C.S.I which supported most major programming languages.

After two hours of intense competition and coding, the winners were announced.

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