## **ICP Smart Contract Code Camp Primer and Checklist for DEVCON Chapters and Leaders**

**Introduction**

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**Hello DEVCON Chapter Leaders,**

This guide provides a roadmap for DEVCON Chapters and Leaders to organize and host an ICP Smart Contract Code Camp, in collaboration with ICP Hub Philippines. This partnership between ICP Hub Philippines and DEVCON Philippines, Inc. aims to empower Filipino developers with the skills and knowledge to work with Web3 technologies, while also raising broader awareness of blockchain and decentralized solutions.

# **Requirements for organizing code camps**

Chapter representatives interested in organizing ICP smart contracts should provide the following information:

* Date
* Time (minimum of four hours per session)
* Number of sessions
* Venue name
* Complete address
* Google Maps link of the address
* Number of attendees (minimum of 60)
* Type of attendees (students [3rd year minimum CS/IT/IS o rCpE knows web development], professionals, or both)
* Computer lab or bring your own device
* Number of computer labs (if applicable)

Aside from students, faculty are highly encouraged to attend if partnering with a college/university

# **Shortcut links**

* **Most important links**
  + **Read Me guide for organizers** [**https://docs.google.com/document/d/1DHuqJkVS3Qqb8HctT-J-cMeTy\_rhDFOvnggE0qXYJqg/edit#heading=h.jbbuigr96kwx**](#_jbbuigr96kwx)
  + **Installation guide for IT Heads** [**https://docs.google.com/document/d/16ORd5jeIgywZ6oC\_Q8pyRawNRrT70mo99swwcJ0ZkBA/edit**](https://docs.google.com/document/d/16ORd5jeIgywZ6oC_Q8pyRawNRrT70mo99swwcJ0ZkBA/edit)
  + **Event Slides**
    - **2025 slides**
      * **Introducing DEVCON** [**https://docs.goo.gle.com/presentation/d/1\_JxKfVFhSJE2AXGqss9RD2G9i2ibcCM\_63WtX31FYOA/edit#slide=id.g2e8707f0c9b\_0\_0**](https://docs.google.com/presentation/d/1_JxKfVFhSJE2AXGqss9RD2G9i2ibcCM_63WtX31FYOA/edit#slide=id.g2e8707f0c9b_0_0)
      * **ICP DEVCON Motoko intro** [**https://docs.google.com/presentation/d/1Wzd2HcsAkWfdp2eFmRvDOQyA5KXT6AF3r3V57ukUx6Q/edit**](https://docs.google.com/presentation/d/1Wzd2HcsAkWfdp2eFmRvDOQyA5KXT6AF3r3V57ukUx6Q/edit)
      * **Sample form duplicate for registration and checklist - get from Mike 1-2 weeks before and share to your attendees for the event**
      * **Sample exercise output** [**https://fnn5d-2qaaa-aaaan-qzrwa-cai.icp0.io/**](https://fnn5d-2qaaa-aaaan-qzrwa-cai.icp0.io/) **and GitHub file** [**https://github.com/yhnalx/Devcon-icp-motoko-level2**](https://github.com/yhnalx/Devcon-icp-motoko-level2)
    - **2025 Event templates**
      * **Standard** [**https://www.canva.com/design/DAGeSipAbx8/DuzCTJi2T1PR7eioCnWfAg/edit**](https://www.canva.com/design/DAGeSipAbx8/DuzCTJi2T1PR7eioCnWfAg/edit)
      * **March Code Camps** [**https://www.canva.com/design/DAGemMR6-ho/W0W1e2Pgpbq4Uz12rLRojw/edit**](https://www.canva.com/design/DAGemMR6-ho/W0W1e2Pgpbq4Uz12rLRojw/edit)
    - **Other recent reference** 
      * **ICP** [**https://docs.google.com/presentation/d/1rPAj7UuvKkJQ2C62dtEfL-uTrK7202KPD05T8Mw\_A\_s/edit#slide=id.p**](https://docs.google.com/presentation/d/1rPAj7UuvKkJQ2C62dtEfL-uTrK7202KPD05T8Mw_A_s/edit#slide=id.p)
      * **Guide** [**https://docs.islacamp.ph/manual/code-camp**](https://docs.islacamp.ph/manual/code-camp)
    - **From ICP Resources**
      * [**https://learn.internetcomputer.org/hc/en-us**](https://learn.internetcomputer.org/hc/en-us)
      * [**https://icp.ninja/**](https://icp.ninja/)
      * [**https://dfinity.frontify.com/d/pD7yZhsmpqos**](https://dfinity.frontify.com/d/pD7yZhsmpqos)
  + Setup instructions reference <https://icp-hub-ph.gitbook.io/manual/code-camp>
* **Cannister IDs**
  + **Get from Mike 1-2 weeks before. This is critical since old canister IDs expire and need to be coordinated with Melissa of ICP Hub**

# **Execution success checklist**

**By taking these initiative steps, you'll be well-prepared to hit the ground running when the official ICP Smart Contract Code Camp schedule is announced.**

**Pre-Event Activities:**

* 3+ weeks before
  + - Communicate your tatget code camp with HQ. Otherwise, you might commit a code camp but there’s no available slot or voucher codes
    - Use this invitation letter <https://docs.google.com/document/d/1C64uBHwiEh_sjYsfw1QHy_HzcptwpoxP7FZIS4O-KzM/edit?tab=t.0>
    - Target 3rd-year or 4th-year IT or CS Students with knowledge in GitHub and web development. GitHub account and deployment knowledge is required for the activity. GitHub basics are available here https://docs.github.com/en/get-started/start-your-journey/hello-world
    - Installation Guide: Distribute a clear guide for software installation. Installation guide for IT Heads <https://docs.google.com/document/d/16ORd5jeIgywZ6oC_Q8pyRawNRrT70mo99swwcJ0ZkBA/edit>
    - Blockchain and GitHub 101: Provide introductory materials on Blockchain fundamentals to attendees that they can check ahead including the resources for the event
    - Make sure your form has our standard consent form <https://devcon.ph/standard-privacy-and-safespace-consent/>
    - Get the event-specific registration link from Mike using luma platform
    - Train your mentors to deploy

**Pre-Event Activities:**

* 2 weeks before
  + - Train mentors on deployment (Ensure mentors are familiar with the ICP platform & deployment process Level 2 Motoko updated content)
    - Get confirmed slot from H for code camps
    - Request seed fund (Submit request 1-2 weeks prior). Link: https://docs.google.com/forms/d/1oK0yx7CaGwAJbkKekO4AcZ8Ro\_QNU9RTXRy-L3qr0us/viewform?edit\_requested=true
    - Promote incentive shirts & merch (Coordinate with Dom for design & budget, ensure production timeline)
    - Confirm event registration links (Test duplicate forms from Mike)
    - Confirm venue & equipment (Check computer lab reservations, projector, mic, etc.)
    - Ensure software installation (Verify pre-installed software using the installation guide)
    - Publish the DEVCON template code camp. Link: https://www.canva.com/design/DAGeSipAbx8/DuzCTJi2T1PR7eioCnWfAg/edit
  + 1 week before / few days before
    - Confirm venue, promotions, and availability
    - Endorse the guests or mentor names to school participants
    - Test and Monitor the availability of coupon codes
    - Double check and confirm speakers and slots

# **Requirements for participants**

Participants and partners are required to install the following. They should all be informed about this instruction, whether the venue would be a computer lab or bring your own laptop.

* Install the following prerequisites: [icp-hub-ph.gitbook.io/manual/code-camp](https://icp-hub-ph.gitbook.io/manual/code-camp)
* IC SDK installation, if the prerequisite installation above doesn't work (install Node.js within WSL fir before DFX): [internetcomputer.org/docs/current/developer-docs/getting-started/install](https://internetcomputer.org/docs/current/developer-docs/getting-started/install)
* MOPS installation: [cli.mops.one](https://cli.mops.one/)
* Prepare a web application to be uploaded into the blockchain network(html, css, javascript, no server side scripting)

**During the Event:**

* **Few days before the event** 
  + Ensure all checklists are aligned with HQ and Mike
  + Prepare the looping videos
    - ICP and DEVCON <https://drive.google.com/drive/folders/15N4DGP_rmvNQbSKMTuzPLSi3U8ZCCbX_>
    - Play the intro message from Dom and Nelson before or after introducing DEVCON , you can also include this in the looping videos - your call <https://www.canva.com/design/DAGfnGu5utg/93M6LL7Vo18a6A7I2o0xQg/edit>.
  + **On the day** 
    - Take pictures and upload to Google Drive, and on your chapter Facebook pages - registration, speakers, mentoring, and raffle of winners
      * Use the post-event template from HQ. This is a special request by ICP to have standard post event templates that feature their logo in the footers
      * Template here https://www.canva.com/design/DAGfVoCCHMs/yGVTIcqBkvLKu5ay3Qq3Zg/edit?utm\_content=DAGfVoCCHMs&utm\_campaign=designshare&utm\_medium=link2&utm\_source=sharebutton
    - **All expenses should be under DEVCONNECT PHILIPPINES INC. TIN #: 010 398 440 Address: U-501 The Orient Square Building, Don F. Ortigas Jr. Road, Ortigas Center San Antonio Pasig City 1605 Philippines**
    - Load and loop the ICP & DEVCON Videos linked above.
    - Ingress team should be at the venue 3-4 hours before, for setting up the venue and checking the installation
    - **Submit the EOD report to HQ GC**
      * + School name:
        + Total attendees:
        + Profile of the attendees course, and level :
        + Total voucher codes received:
        + Total deployed and completed:
        + % competition:
        + Other Notes on what worked well and what can be improved
* Program flow. 3-4 hours
  + - Welcome and Introductions: Introduce DEVCON, the speakers, and the overall program. <https://docs.google.com/presentation/d/1Wzd2HcsAkWfdp2eFmRvDOQyA5KXT6AF3r3V57ukUx6Q/edit?fbclid=IwY2xjawH9PwdleHRuA2FlbQIxMQABHarYX57dGOFivmPRlLB5kxfI67uQYykXIjVItvyJ_EVUy7I8MbiG5Rjy6A_aem_UGQx7SaqZke5u9pJO9J1xQ#slide=id.g3278465d2aa_0_665>
      * For March: Have a women in tech leader of DEVCON introduce DEVCON and share about why #SHEISDEVCON support matters for women in tech
    - Tech Foundations: Briefly cover the basics of blockchain, web3, and decentralized technologies.
    - ICP Deep Dive: Explain developing on the ICP network.
    - Q&A: Facilitate a question-and-answer session to address participant queries
    - Code Camp Activity: Guide participants through developing a smart contract.
    - Wrap-up: Provide final reminders, suggest helpful social media channels, and share contact details for further assistance.
    - Cover and post content on registration, attendees, completion and school highlight

**After the event**

* + Complete the liquidation report, care of finance rep
  + Use the remaining merch prudently - not all events have seed fund so always reserve for contingency / rainy days
  + Create an internal team retrospective. What worked well? What can be improved? Share to the GC
  + During and post-event, Links of the FB content from your chapter's FB page
  + Submit the liquidation report and note the new format <https://linktr.ee/fordevconchapterleads>
* **Tshirt Design for your area. Coordinate with Mike anid HQ 3-4 weeks before re printing lead time**
  + 15 years of DEVCON Shirt Design
  + Sample Luzon shirt design <https://www.canva.com/design/DAGM__WFe30/dk3MqRLQMvT3ToOnwZp1AQ/edit?fbclid=IwZXh0bgNhZW0CMTEAAR2lKaqTfGSwtHqYzyPpumhZMmNn_VsRk5UEJ1Lcmrj6QPUfMzqO1ogjb-I_aem_Kwq-l3KH9cNNy4j6DNPhAg>
  + You can also propose a local design for your area! Get HQ approval and coordinate
* **More info**
  + About the partnership <https://devcon.ph/news-2024-devcon-philippines-and-icp-hub-philippines-partner-for-nationwide-smart-contract-code-camps/>
  + About Smart Contracts and ICP Slides recap from Ely: [docs.google.com/presentation/d/1rPAj7UuvKkJQ2C62dtEfL-uTrK7202KPD05T8Mw\_A\_s](https://docs.google.com/presentation/d/1rPAj7UuvKkJQ2C62dtEfL-uTrK7202KPD05T8Mw_A_s/)
  + Refresher from the last training at Ortigas <https://drive.google.com/file/d/1aPfHuRsE__0zJ68GobRVk2T_pXnnNGWh/view?usp=drivesdk>
  + Github <https://github.com/icphubph>
  + Links and reference from Laguna <https://www.facebook.com/photo/?fbid=122139627458182681&set=a.122114658884182681> and <https://www.facebook.com/BitPinas/posts/pfbid02FdAKWch5RhdXvFXuM6eqs3G12LsXyMVXm3KDvEA9SFxt55Z43979VKpaxoPyjZZyl>
* **About info**
  + **About https://internetcomputer.org/community**
  + **ICP self paced guideline https://app.blocked.cc/icp/missions/88 and**
  + **Live Code Camp Session** [**https://www.youtube.com/watch?v=jiojgP5HgDI**](https://www.youtube.com/watch?v=jiojgP5HgDI)
  + [**GitHub.com/icphubph**](http://github.com/icphubph)

**Recent program partnership milestones**

* [March 24 -Official partnership kick off of ICP x DEVCON](https://devcon.ph/news-2024-devcon-philippines-and-icp-hub-philippines-partner-for-nationwide-smart-contract-code-camps/)
* [April 18 Kickoff Hybrid Nationwide code camps with Davao, Iloilo, laguna and Manila](https://web.facebook.com/ikawalonieli/posts/pfbid02yM4jEg8QT6iCSWVMhTPG5MXkGFjXUW5FnSYVJZyJhV4KVWYLvPg92w3qNFMDS8xgl?_rdc=1&_rdr)
* [May 10 First ever code camp in Laguna](https://web.facebook.com/BitPinas/posts/pfbid02FTFRDX2jA9Q2dnnL8u7RCuUtNL55qBfDGs9xBcDHoURcbtjqD4jvz5PVqW9LQmWal?_rdc=1&_rdr)
* [June 10 -Second Nationwide Training with Legazpi, Cebu, and CDO](https://web.facebook.com/devconlegazpi/posts/pfbid021tcJJwKBx2KDgm2kVt6NRf1iEgne3FhP3hs7gMyPjbGmWgFp6xZfRMC6HA5mgcZWl?_rdc=1&_rdr)
* [June 29-30 ICP Hub joins DEVCON Mindanao Summit as major sponsor](https://web.facebook.com/ICPHubPH/posts/pfbid0sPk6H4ZCP3d5epYvZEa5uZyLdEyKtqv2xwPCZP2R82tbZgWE3x7CNRfygRJsdq46l?_rdc=1&_rdr)
* [July - DEVCON Mentors and Student participants can form a team and get a chance to win grants and upto 200k PHP in prizes](https://hackathon.islacamp.ph/)
* [July 13 - First ever Visayas led training. Dry run as ready Facilitator by Rubeth of Iloilo](https://otter.ai/u/rPwrTwtJ0C36fEdvCYGPVw0czQo?utm_source=copy_url) and [meeting notes Otter recording](https://otter.ai/u/rPwrTwtJ0C36fEdvCYGPVw0czQo?utm_source=copy_url)

# **Planning**

**Planning for your events**

* **Who can organize ICP code camps? Checklist**
  + **1) A nearby Lead Facilitator who has completed a dry-run / organized a previous code camps**
    - **Ready Main Facilitators**
      * Ely (ICP)
      * Mike
      * Sean
      * Joy
    - **Scheduled / for schedule of dry-run as potential Main Facilitators**
      * Rachelle
      * John Richard CDO - Davao Team
      * Sean of Laguna
      * Baron
      * Grah
    - **Interested but pending training:**
      * Pampanga Team
      * Cebu Team
  + **2) Chapters with 3-5+ trained mentors (you can’t facilitate if you aren’t trained)** 
    - What are trained mentors? DEVCON Leads who completed training and publishing the exercise in one of the trainings
    - Mentors can assist students during workshop to maximize the completion rate and guide students during the training. Mentors can be upgraded to Ready Facilitators once they facilitate a dry-run session where they lead the training
    - What if I have an upcoming event but i only have 1-2 trained mentors in my area? Schedule your internal initiated training with your chapter officers or local mentors. Mike will attend and assess if you qualify to facilitate a code camp
  + **3) Chapters who applied and submitted to HQ request to initiate a local code camp**
    - Submit the ff on the GC or to [mlance@devcon.ph](mailto:mlance@devcon.ph) and [ddeleon@devcon.ph](mailto:ddeleon@devcon.ph) : Lead Facilitator, List of mentors, Venue partner, Date & Local chapter involved
  + **4) 3-5 weeks notice and request prior to your target event. You can’t organize code camps if you haven’t attended a remote training**
* **Perks for organizing a code camp**
  + **Host one of the sponsored code camps by the national office and empower local IT Students in your area to publish their first smart contract using ICP as their portfolio for future job applications and differentiation in the marketplace**
  + **Separate Seed fund for exclusive shirt merch**
    - Atleast 5 trained mentors and chapter support
    - Students who will complete the code camp
  + **Seed fund per event**
    - 10-15k per coordinated and approved code camp can be used as fitting to any of the following as long as liquidation BIR Receipts are provided
      * Speaker and organizer meals
      * Applicable transportation
      * Additional exclusive merch (optional)
      * Local officers merch (local call)
* **Perks For ready facilitators perks (Currently Mike and Joy)**
  + Priority Travel opportunities to be a main facilitator in your area or event nationwide (main locations we have now are Laguna, Manila, pampang, Iloilo and Davao)
  + Exclusive premium merch
  + Priority Travel Seed fund incentive for major summits or major events where ICP is also participating
  + Representation, communications and planning seed fund for leading code camps
  + If you organize 3-4 code camps or 100+ attendees in total, HQ will provide additional program support to your chapter or area for strategic events. T&C apply.

**Key Points in the Agreement**

* Parties Involved:
  + Internet Computer Protocol (ICP): A general-purpose blockchain for smart contracts.
  + ICP Hub Philippines: Promotes web3 innovation in the Philippines using ICP.
  + DEVCON Philippines, Inc.: A non-profit supporting Philippine IT development through open-source technologies.
* Reasons for Partnership:
  + Shared goal of educating Filipinos about emerging software development trends and tools in web3.
  + Leverage DEVCON's 14-year track record of empowering IT students and developers.
* Partnership Goals:
  + Collaborate on web3 education initiatives in the Philippines.
  + Organize code camps on smart contracts, community events, and develop online resources.
  + Equip Filipino developers with Web3 skills and raise awareness of blockchain and decentralized solutions.

**Training**

**Moving Forward: A Roadmap to Success**

This primer and checklist will guide DEVCON Chapters and Leaders in successfully hosting ICP Smart Contract Code Camps, supporting the goals outlined in the agreement. By following these guidelines and leveraging the strengths of both DEVCON and ICP Hub Philippines, we can contribute to a more skilled and informed Filipino web3 developer landscape.

**Code Camp Guidelines**

* **Target Audience:**
  + Students (consider shorter attention spans)
  + Developers
* **Before You Host:Checklist: \* Secure at least 3 trained mentors to guide participants. \* Confirm a venue with reliable internet access that can accommodate your expected attendees. \* Schedule follow-up meetings with the Program Lead to discuss mentor qualifications and camp logistics.**
* Pre-Event Attendee Checklist (Distribute 2-3 days prior):
  + Access and review provided e-learning video materials on ICP Smart Contracts.
  + Complete the provided setup instructions (software installation, account creation).
  + Confirm you have a laptop with the necessary software pre-installed.
  + Confirm your attendance (date, time, location).

**Get a Head Start!**

**While you wait for the official schedule and confirmation of trained mentors, you can take these proactive steps:**

* **Access Recordings and Resources: Inquire with the Program Lead about any available recordings or presentations from previous code camps. This can provide valuable insights into the curriculum and delivery style.**
* **Explore ICP Learning Materials: Look for online resources and tutorials offered by ICP Hub Philippines or the DFINITY developer community. Familiarize yourself with ICP concepts and development tools.**
* **Setup Your ICP Development Environment: Follow ICP documentation to set up the necessary software and tools for developing smart contracts on the ICP network. This will allow you to experiment and gain hands-on experience before the code camp.**
* **Practice with Sample Projects: ICP Hub Philippines or DEVCON might offer sample smart contract projects. Try building or deploying one of these to solidify your understanding.**

**Lessons Learned from Laguna Pilot Online Code Camp:**

* Repository Configuration: Cover repository configuration best practices.
* Basic Git Commands: Instruct on basic Git commands for cloning GitHub repositories.
* IDEs: Briefly introduce different Integrated Development Environments (IDEs) participants can use.

**Current compatibility of ICP**

* -JavaScript/TypeScript for programming canisters (smart contracts)
* -SQL for storing and querying data on-chain
* -ExpressJS
* -NEXTJS
* -SQLite

**Lessons from other chapters   
 Tips and Overcoming Challenges (Based on Laguna Pilot Experience):**

* **Limited Trainers:**
  + Solution: Have your mentors attend trainings. 5-10 mentors per event would be ideal like what Iloilo did.
  + Conduct a dry-run before any event
  + Leverage DEVCON Facilitator Training (SME) program to ensure a sufficient number of qualified mentors.
* Low Completion Rate:
  + Solution:
    - Conduct a pre-event setup session or overview call to address potential issues.
    - Offer incentives like branded shirts for completing pre-event setup tasks.
* Troubleshooting Challenges:
  + Solution: Have mentors/facilitators readily available on-site to assist participants with troubleshooting.
* Unfamiliarity with Github:
  + Solution:
    - During registration, require participants to have a basic understanding of Github. You can provide a URL to relevant resources for those who need to learn.
    - Partner with schools that have labs equipped with Github and necessary software.
* No Device:
  + Solution: Partner with local schools to secure venues with computer labs equipped for the code camp.
  + Local DEVCON chapters can provide clear written MOUs outlining expectations and a checklist for participants to install necessary software (VSCode, etc.) before the event.

## **July 18 DEVCON Iloilo Code Camp Learnings - 61 total deployed ICP projects in one day. Morning and afternoon sessions and multiple classrooms. 10 trained mentors. 1 Local Facilitator - Joy. Event success was not dependent to Eli’s schedule. Eli just introduced ICP, observed and remote technical assistance. 86% completion rate based on the canister vouchers count received vs deployed. 53% completion rate based on actual attendees vs deployed Event Planning and Execution**

* **Mentor Training:** Prioritize a comprehensive training session for 5-10 mentors per chapter to enhance event effectiveness.
* **Parallel Sessions:** Implement two parallel classrooms with distinct morning and afternoon schedules to accommodate more participants.
* **Merchandise Planning:** Initiate the shirt merch proposal at least 3-4 weeks in advance for HQ approval. Consider a price range of 180-200+ PHP per shirt based on quality, print size, and quantity.
* **EOD Reporting:** Create a concise EOD report highlighting key metrics: total participants, voucher codes received, deployed students, mentors, and completion rate.
* **Voucher Code Management:** Accurately forecast attendance due to the 3-5+ day processing time for voucher codes from ICP. Avoid relying on on-the-spot code acquisition.
* **Role Assignment:** Clearly designate leads for logistics, food, finance, school coordination, and registration to streamline operations.
* **Branding:** Develop a unique, locally inspired poster and merch design to create a strong visual identity.
* **Post-Event Coverage:** Assign a dedicated team for post-event reporting and real-time updates, including creative content like TikTok POVs.
* **KPIS tracking with ICP.** Make sure the form submission for completion are clear. We have several errors on the tracking where student submits their GITHUB URL instead of their CANNISTER ID project URL in the correct form. Edit and update the instruction with sample URL in the form and remind this during submission.

### **Additional Considerations**

* **Thorough Event Evaluation:** Conduct a post-event analysis to identify areas for improvement and replicate successful elements in future events.
* **Participant Feedback:** Gather feedback from participants to understand their experience and expectations.
* **Partnership Building:** Explore opportunities to collaborate with local businesses and organizations for support and resource sharing.
* **Volunteer Management:** Effectively manage and recognize volunteer contributions to ensure event success.

**ADDITIONAL TIPS FROM ILOILO TEAM -**

### **GitHub Project Deployment Tips:**

1. **Use Standard Technologies**
   * **Stick to HTML, CSS, and JavaScript.**
2. **Keep Your Project Updated**
   * **Ensure your GitHub project is always up to date.**
3. **Check dfx.json**
   * **Verify that dfx.json is included and matches the version used locally.**
4. **Organize Your Project Structure**
   * **Ensure index.html is inside the src folder, and all related files are properly organized within it.**
5. **Manage Your Images Properly**
   * **Double-check the image paths, ensuring they start with the correct /.**
6. **Adopt Best Practices in Naming**
   * **Use lowercase letters for folder names and keep them concise and descriptive.**

### **Before Deployment:**

1. **Verify Folder Location**
   * **In your terminal, ensure you are in the correct project folder.**
2. **Follow the Proper Command Order**
   * **Execute the deployment commands in the correct sequence to avoid issues.**

* **Additional Tips from Iloilo and tips**
* Ensure all attendees have the required software installed on their machines (Windows, Linux, or Mac) before the event.
* For Windows users, guide them to enable virtualization in BIOS settings and install the Windows Subsystem for Linux (WSL).
* Provide detailed, step-by-step instructions for installing tools like VS Code, Node.js, Git,
* Share the project submission link with attendees well in advance and emphasize the importance of completing the form immediately after deployment.
* Prepare and share the workshop presentation slides with attendees, encouraging them to review the materials prior to the event.
* Request attendees to type their chapter information and campus ambassador status in the chat during the pre-event session to track attendance and participation.
* Connect with experienced chapter organizers, like Joy from Iloilo, to gather tips and learnings from their previous code camp experiences.
* Ensure you have at least 5 mentors available to facilitate the event smoothly and coordinate with them to provide guidance and materials.
* Allocate time to introduce and train attendees on using GitHub, as many students may not be familiar with the platform.
* Offer incentives, such as t-shirts, to attendees who successfully complete the project submission to motivate them to follow through with the entire process.

**IMPORTANT: Implement a system to track who receives coupons and validate that they have indeed met the criteria. After giving the coupon code, make sure it is successfully deployed if not record the error.**

* **Key points when introducing ICP and Blockchain** 
  + **Blockchain Technology:**
    - Introduced in 2009 with Bitcoin, blockchain is a decentralized, distributed ledger system.
    - It records transactions in a secure, transparent, and immutable manner across a network of computers (nodes).
    - Provides a foundation for cryptocurrencies and the development of decentralized applications.
  + **Ethereum and Smart Contracts:**
    - Ethereum, launched in 2015, expanded blockchain capabilities by enabling smart contracts.
    - Smart contracts are self-executing programs on the blockchain, allowing the creation of decentralized applications (dApps).
  + **ICP (Internet Computer Protocol):**
    - ICP is a new blockchain technology introduced in 2021, developed by the DFINITY Foundation.
    - Aims to create a "world computer" - a fully decentralized, scalable, and efficient blockchain network.
    - Designed to be an adaptive blockchain, with a decentralized governance system for protocol upgrades.
  + **Key Features of ICP:**
    - Scalability: ICP is designed to be unbounded, able to scale without limits in data, computation, and users.
    - Efficiency: ICP aims to be more efficient than centralized cloud technologies, while being environmentally friendly.
    - Decentralization: ICP is a fully decentralized network, controlled by a decentralized governance system.
    - Stateful and Serviceless: ICP allows the creation of autonomous, stateful applications without traditional servers or cloud services.
  + **Blockchain Adoption and Potential:**
    - Blockchain technology, including ICP, has the potential to disrupt and replace centralized systems and technologies.
    - The vision is for the blockchain to become the "world computer" that hosts a wide range of web applications and services in a decentralized manner.
    - This transition from centralized to decentralized technology is referred to as the "blockchain singularity" or the "everything stack" that will eventually replace traditional centralized solutions.

**Tips and lessons from Davao Code Camp for the next organizers:**

* **Coordination and communication between the partners are essential to ensure that the code camp or the event will run smoothly.**
* **Before the code camp, participants' knowledge should be identified to assess where we should focus on our code camp. Some blockers are in GitHub repositories creation; most students need to be more knowledgeable about GitHub.**
* **Instead of teaching them ICP, we spend time helping them create their git repository. On the other hand, some workstations don't work at all. Also, many students are interested in the Code Camp; however, the laboratory can only accommodate 30 students.**
* **Maybe next time, we can hold a code camp on the CAMPUS DEVCON level so that all interested students can participate.**

**Lessons from Pampanga Code Camp**

| **School Name** | Holy Cross Colleges |
| --- | --- |
| **Total Number of Attendees** | 70 |
| **Profile of the attendees course, and level** | 2nd & 3rd Year students from Computer Science, Information Technology, and Computer Engineering programs. |
| **Total voucher codes received** | 59 |
| **Total deployed and completed** | 53 |
| **% completion:** | 75.14% |

**What worked well:**

* Many participants successfully deployed projects despite internet connectivity challenges.

**What Can Be Improved:**

* A short pre-event meeting is recommended to ensure all team members are aware of their tasks.
* Ensure a stable internet connection to avoid issues with coupon code redemption.

**Lessons from Iloilo ICP Code Camp:**

| **School Name** | Western Visayas State University |
| --- | --- |
| **Total Number of Attendees** | 76 |
| **Profile of the attendees course, and level** | BSIT (3rd Year) & BSCS (1st Year) |
| **Total voucher codes received** | 81 (expired coupons included, 76 working) |
| **Total deployed and completed** | 70 |
| **% completion:** | 92.11% |

**What Worked Well:**

* Most coupon codes were successfully redeemed.
* Issue resolution was prompt once the internet problem was identified.

**What Can Be Improved:**

* Ensure stable internet connectivity to prevent conflicts in coupon code redemption.
* Conduct a pre-event technical check to identify potential DNS or network-related issues.
* We can integrate the ICP Code Camp into the Campus DEVCON Ambassador’s main event to attract more students or even blend it with professionals to broaden participant coverage.
* To improve future events, a short pre-event meeting is recommended to align all team members on their tasks. Additionally, updated and standardized guidelines for code camps are critical to this.

**Additional Note:**

* Fewer students were available in the afternoon, as the sessions were split between morning and afternoon.

**Lessons from Iligan-CDO Code Camp**

* **CDO**
  + **X**
* **Iligan Mentors** 
  + **We suggest that we need to have an effective teaching style.**
    - **On Oct 12, 2024, we worked with CDO mentors to provide details in the form of Notion notes. Following this, one mentor conducted a live demo, during which they intentionally introduced possible errors and walked them through the steps to troubleshoot and solve the problems that arose. Additionally, other mentors were available to provide personalized guidance to students who needed extra support or were struggling to follow along.**
    - **It is also important to provide a website template for students to edit and personalize, rather than building it from scratch.**
    - **For the blockchain presentation, it’s essential to create a powerpoint that is visually engaging and kid-friendly. Since the students are new to the concept of blockchain, we should approach them as kids and avoid using too many technical terms that might overwhelm them. Instead, we should focus on explaining the applications and relatable scenarios where blockchain technology is being used. As students tend to forget jargon easily, it’s crucial to encourage interactive discussions and promote questioning from the students.**
    - **After presenting blockchain to some students, I asked them about their understanding. They recalled the concept of blockchain because of the relatable example we provided.**