



Youth4Nation



राष्ट्रार्थ युवा Youth4Nation

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## Certificate of Appreciation

We are happy to certify that **Mr. Abhay Tripathi** has successfully completed internship as "**IT Infrastructure Lead and Software Engineer**" in the period of **May - July 2023** in **Youth4Nation Foundation** (hereby referred to as the "Organization"). He has successfully completed the task of digitizing the Organization by setting up and developing the Organization's IT Infrastructure and Software. During the period of the internship with us, he has accomplished the following tasks:

- He has setup the Organization's Web Server and developed the Organization's Website (<https://youth4nation.in>).
- He has developed a Member Enrolment System with ID Card Facility for the Organization which is being used to enrol the Organization's existing and future members. He has also setup and developed an Authentication System and an Authentication based CDN (Content Delivery Network) to securely store and allow access to the data of the Members of the Organization.
- He has designed a Stateless Reference Code Generation Algorithm and developed a System to use the same, which is being used by the Organization to generate Reference Codes which are used while issuing letters. The authenticity of these letters can be verified using the generated Reference Codes present on the letters, providing credibility for the letters issued by the Organization.
- He has setup and developed the Organization's Payment System (using existing solutions), which is being used for purposes like donation, enrolment, etc. by the Organization.
- He has setup the Organization's Mail Server to facilitate communications during various processes such as Member Enrolment. He has also developed an Automatic Mailing System using Python which is being used to send professional emails by the Organization.
- To develop the above-mentioned systems, he has used LAMP Stack (Linux, Apache, MySQL and PHP), HTML, CSS and JavaScript.

He has demonstrated in-depth understanding of the above-mentioned technologies while working to complete the above-mentioned tasks.

We appreciate his work and contributions towards the Organization and wish him success for all his future endeavors.

**Arvind Tripathi**  
**General Secretary,**  
**Youth4Nation Foundation**

