



iTutor

**REPORT
FOR BITSHINE 2K18**



Sanjay Singh Bhandari

MEET THE DEVELOPERS

THE AWESOME PEOPLE BEHIND THIS PROJECT



**SANJAY SINGH
BHANDARI**
BACKEND

**SHIV SHANKAR
VATS**
AUTHENTICATION

**SHREESH
KESHARWANI**
FRONT-END

SAKSHAM DUBEY
API

Sanjay Singh Bhandari - done all the backend job and connected various api

Shiv Shankar Vats - google, Facebook authentication system

Shreesh kesharwani - Front website design

Saksham Dubey - Video Call & chat system

TABLE OF CONTENTS



01

AIM

provide an online platform to learn & teach programming one to one remotely.

MOTIVATION OF PROJECT

How we came to idea of making iTutor

02



03

TECHNOLOGIES USED & FEATURES

iTutor is an intense project 20+ modules and n no. of libraries are used to complete this project

OUR SOLUTION

How iTutor solves the provided problem

04



Aim:-

To provide an online platform to learn & teach programming one to one remotely.



Motivation of project:-

Education involves gaining knowledge and skills that people are expected to have in a society. Like all other fields, technology has gained importance in education and training also.

In 21st century programming is an essential skill, it teaches one how to think.

Learning programming might be easy for some of us. YouTube, Programming courses are there but not everyone learns in same way.

Some of us requires individual attention & line by line guidance.

But there are no platform where we can learn programming one to one remotely. The existing solution are tedious and time consuming, which takes away the essence of learning programming.

TECHNOLOGIES USED

PROGRAMMING

- **HTML** :-Hypertext Markup Language, a standardized system for tagging text files to achieve font, colour, graphic, and hyperlink effects on World Wide Web pages.
- **CSS** :-CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- **JAVASCRIPT**:-JavaScript is a scripting or programming language that allows you to implement complex things on web pages

FRAMEWORKS AND LIBRARIES

- **BOOTSTRAP**:-Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.
- **jQuery**:-The purpose of jQuery is to make it much easier to use JavaScript on your website
- **NodeJS**:- It is a run time environment that allows browser javascript to run on your console.
- **Express**:-Web application framework that provides a robust set of features for web and mobile applications.

DATABASE

MONGODB:- It's an no-sql database that stores data in the form of JSON

DEPLOYMENT

- **DATABASE(m-LAB)** :- mLab is fast hoisting service for mongodb
- **FILES(heroku)**:-Heroku is a platform as a service that enables developers to build, run, and operate applications entirely in the cloud.

FEATURES

01 FACEBOOK GOOGLE AND LOCAL AUTHENTICATION



Login With Google

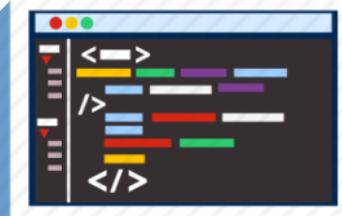
Email

02 INVITATION FORM
SMTP CLIENT TO
INVITE USERS

03 SMART EDITOR SO THAT YOU
FOCUS ON LOGIC RATHER
THAN CODE

04 CHAT OPTION

05 HI-QUALITY
VIDEO CALL



06 FAST OUTPUT WINDOW
FOR CODE COMPILED

07 PROGRAMMING
EXAMPLES

08 WEBSITE GUIDE

INVITE



Our Solution

Innovation is taking two things that already exist and putting them together in a new way.

So we have put the method of traditional teaching and technology together and created a new platform iTutor.

iTutor is online platform which allows real time code sharing along with video and chat support.

Who will be benefited?

01

Those who wants to learn programming

02

those who wants to teach programming

03

You and your friends because no one can teach better than friends

04

IT Companies - online programming interview will be easier

iTutor

Gives a common online platform for live videochat, programming, real time connection without using different software, like team-viewer, skype, text editor

Future Goals

Firstly:

We want to completely open source our project so that everyone can contribute and get benefited from it

Secondly:

- Better language support- currently iTutor supports only web development we wish to extend it for other programming languages
- Name - iTutor is registered trademark company we wish to change it's name
- More Articles : More Programming articles
- Build Community : Users can post their programmes
- Better UI : Dark Theme and Better website frontend