



**DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING**

THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU

QR-CODE BASED ATTENDANCE SYSTEM

Team:

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Guide:

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PROBLEM STATEMENT & REQUIREMENTS



The main intention behind developing this app is to speed up the attendance taking process.

QR Codes can be scanned within fraction of seconds. Why not use this technology to take the attendance for the entire class in just under **1-2 mins**.

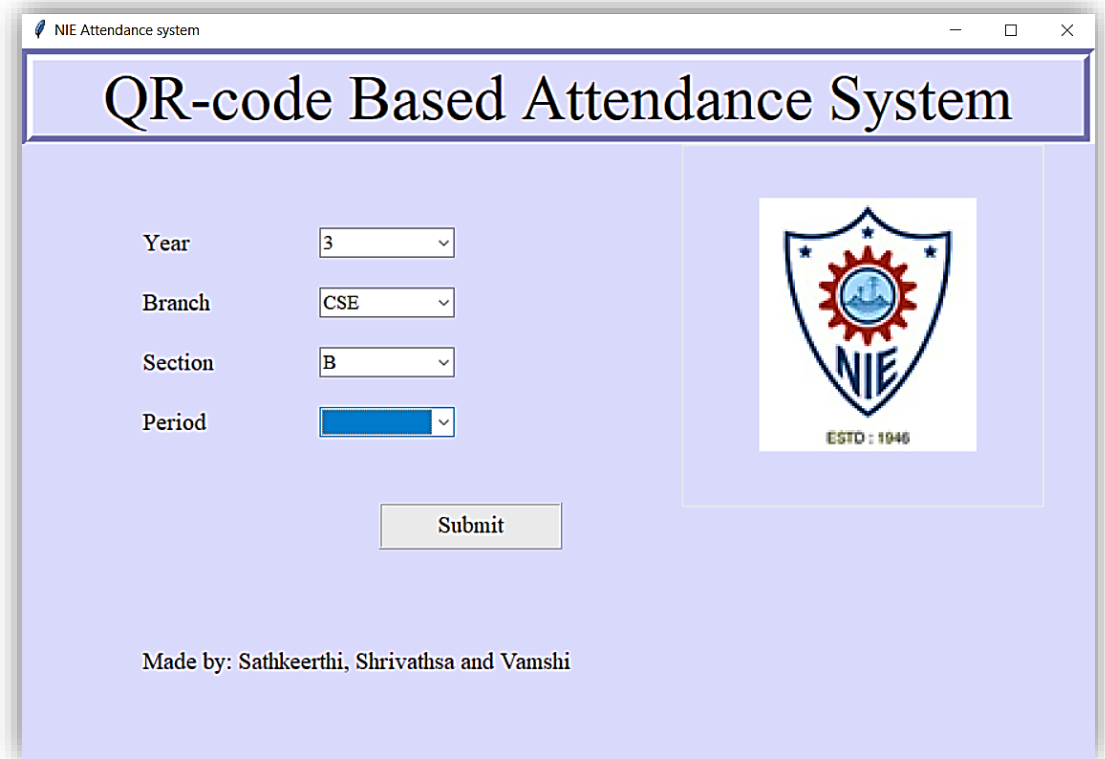
This system also avoids the use of conventional paper-register method.

Requirements:

- QR code scanner / laptop with webcam
- Python versions: 2.7.X, 3.6.X
- Python modules:
 - MyQR
 - TKinter(tk, tk-tools)
 - pyzbar
 - CV2 (opencv-python)
- Pre-generated QR code cards

DESIGN

- GUI mini-interface is used to set branch, year and other important parameters.
- After Submitting, this will open a frame that scans QR codes.



The screenshot shows a window titled "NIE Attendance system" with a light purple background. At the top, a header bar contains the text "QR-code Based Attendance System". Below this, on the left, are four labels with corresponding dropdown menus: "Year" (set to 3), "Branch" (set to CSE), "Section" (set to B), and "Period" (set to a blue bar). A "Submit" button is centered below these fields. On the right, there is a placeholder for a QR code, which currently displays the NIE logo (a shield with a gear and the text "NIE ESTD : 1946"). At the bottom, it says "Made by: Sathkeerthi, Shrivathsa and Vamshi".

GUI mini-interface before scanning

RESULTS & CONCLUSION

- Improvises existing system by a ton
- Cost efficient
- Accurate time-bound attendance monitoring
- Effortlessly convertible Excel format (.xlsx) is highly desirable and easily importable universally
- Higher flexibility in modifying attendance report
- Unlike papers, this is not subject to corrosion / ink blotting, etc.

Student Name	Branch & Sec	Year	Period	In Time
Carl Johnson	CSE-B	3	4	12:34:43
Benedict Cumberbatch	CSE-B	3	4	12:34:56
Jack Dorsey	CSE-B	3	4	12:35:05
Rocky Bhai	CSE-B	3	4	12:35:10
Raja Ram Mohan Roy	CSE-B	3	4	12:35:17
Sathkeerthi Y Agnihothri	CSE-B	3	4	12:35:21
Angelina Jolie	CSE-B	3	4	12:35:29
Vamshi M Jois	CSE-B	3	4	12:35:47
Shrivathsa Rao BV	CSE-B	3	4	12:36:03
Yogesh Raj	CSE-B	3	4	12:36:14

Final report prototype