



**North Maharashtra University, Jalgaon**  
Faculty of Science and Technology  
**BACHELOR OF COMPUTER APPLICATIONS (BCA)**  
**BCA 607 - Project Report & Viva**  
w.e.f. 2019-20  
Total Lectures: 60  
[Total Marks: 60 External + 40 Internal =100 Marks]

**Objective:** – To prepare students to use applications of the theory and practical learned during the course.

### **PROJECT WORK**

1. Each student shall have to carry out the project work based on System Development which may include Application Program, Database Management System, Web Based Application, Smart phone Application, System Tools, Network System Application, etc. A project may be carried out at any outside organization or on a sub system of an organization.
2. The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.
3. The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 15 students for guidance and supervision.
4. The student should clearly mention the need of project , database(s), files required for the project, DFD , Normalization, ERD, software used for the project, reasons for selection of that software, inputs required, outputs produced etc.
5. The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.
6. The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.
7. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
8. No student will be permitted to appear for Viva-Voce examinations, unless and until the project report is submitted within the stipulated time.

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**Project Report on**  
**Online Railway Ticket Booking System**

**Submitted To**



Dr. Annasaheb G.D Bendale Mahila Mahavidyalaya, Jalgaon  
(NAAC Accredited 'A' Grade) College  
Code: 100003

**SUBMITTED BY**

**Nirmal Tukaram Patil**

**Under the Guidance of**

**Prof. Komal L. Patil**

**In Partial Fulfillment of**

Bachelor of Computer Application  
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon  
for the Academic Year 2023-2024

Lewa Education Union's



Dr. Annasaheb.G.D. Bendale Mahila Mahavidyalaya

NAAC Re-accredited 'A' Grade (CGPA 3,11) ISO

9001: 2019 Certified



**CERTIFICATE**

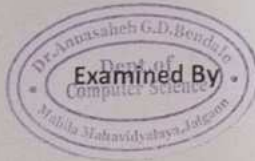
**Department of Computer Application**

This is to certify that Miss. Nirmal Tukaram Patil Final year student of Bachelor of Computer Application has successfully completed the project entitled "Online Railway Ticket Booking System" Under the guidance of Prof. Komal L. Patil

*K Patil*  
11/4/24  
Prof. Komal L. Patil

Project Guide

*H B Patil*  
11/4/24  
Dr. Harshali B. Patil  
Head  
Department of Computer Science  
Dr. Annasaheb G. D. Bendale  
Department of Computer Science



*H B Patil*  
8/5/24  
Internal Examiner

*Lax*  
8/5/24  
External Examiner

## Summary and Conclusions

### Summary of Achievements

The following achievements were made during the project:

- We had the opportunity to learn a new technology PHP
- Learned to work in visual studio code.
- We learned to handle a project efficiently and correctly.
- Learned to tackle various adverse situations while managing and developing software.
- Learning about the functioning of the IT industry and work ethics in the corporate world.
- Learning to work with PHP and XAMPP Control Panel.
- Learning about the different phases of software development and the software engineering processes involved in the development of software

### Main difficulties encountered

The main difficulty that was encountered during this project was that we had to learn a new technology PHP as well as a new language PHP with which we were not at all familiar with earlier .

- Time constraint.
- Learning the use of triggers.

### Limitations of the Project

- Print ticket option is not provided here.
- Ajax could not be used.