



## Bachelor of Computer Applications

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### General Guidelines for Software Project using Java Programming Language

1. The project should be free from plagiarism of any kind.
2. Should use Object-oriented principles
3. Project should be developed for solving a specific type of problem
4. A proper documentation of the project, giving a clear description of the problem being solved must be provided. The documentation should also include description of the algorithms used in the problem solving, and a description about the responsibility of all the classes that have been developed.
5. It is encouraged to include a description of the iterations during the development process, and what was achieved during the iterations. This is not mandatory.
6. Code should be self documented and should follow proper coding standards
7. Should make proper use of data-structures available from the java.util package
8. Proper use of Exception handling feature of the Language should be done.
9. Uses of IDEs like eclipse, intellijIDEA, etc are not prohibited. Students may be encouraged to explore these IDEs on their own.
10. The final project completion should include an executable jar file being submitted for the project.
11. Though too-much significance may not be given to the GUI design, it should be simple and intuitive.
12. Proper use of GUI Components and Event – Handling features.
13. Proper knowledge about the purpose of the application and use of Input/Output APIs

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## List of Sample Projects

Sr. No.	Particulars
1	Develop a Java Application Launcher using Java Swing which provides a dashboard from where you can launch a different pre - installed windows applications / services / utility tools. Make sure only registered users can access this launcher dashboard as this application required login authentication. You can use different suitable GUI APIs of java along with JDBC for database purpose.
2	Develop a java application on Library management system which provides all the most common functionalities of any library system like book management , book issue, book return, book search (by name, by author, by publication house etc), library membership fees, deposit, penalty on late return etc. Cover all the library functionalities for this application. You can use different GUI components or you can use Console base system along with database support.
3	Develop a java application on Employee Management System which can cover all the most common functional area of HR module like Employee Recruitment, Salary, designation, PF, Tax, Promotion, Bonus etc. You can use different GUI components or you can use Console base system along with database support.
4	Develop a java application for Online Quiz System which provides a special interface to attempt different quiz test. Develop all the related functionalities like apply for quiz test, quiz criteria, score, result, leader board, manage questions etc. Add a strong database support which contains a large amount of quiz data and can generate any quiz randomly for different user's in different test.
5	Develop a java application for India's Online Vegetable Market which provides a special interface to deal with online buy and sale of vegetables. Develop all the related functionalities like listing of all vegetables from vendor's , vendor's management, manage user's cart, delivery etc. Also add a strong database support which contains a data and can store and generate all the related information of vegetables.
6	Develop a java application for Online Travel Agency which provides a special interface to perform all the transactions of Travel agency operations. Develop all the related functionalities like Package details, Bookings, Destinations, Ticket Booking, Client Details etc. Manage all the data and traction using a strong database support.
7	Develop a java application for Online Job Information Provider which is a typical online Job portal which provides all the functionalities like Job search, Job Posting, Recruiter and Candidate profile management, job filter, apply etc. Cover all possible transaction using a strong database support.

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<b>8</b>	Develop a java application for Food Safety Portal which covers all the functionalities and procedure of food safety measurements, food sampling / test , report, Government guidelines / standards, apply for new licence, black list etc. Add all possible functionalities with a strong database support.
<b>9</b>	Develop a java application for Employee Attendance System which covers all the functionalities of Employee's attendance , track records, early and late punch records, penalty etc. Also add any additional HR functionalities if applicable. Add all operations with database support.
<b>10</b>	Develop a java application for Law and order automation which covers all the functionalities of Law and Order automation. Add all possible functionalities with database support.
<b>11</b>	Develop a java application for Water Management Portal which covers all the functionalities of Water management. Add all possible functionalities with database support.
<b>12</b>	Develop a java application for Aviation Information System which simply helps customer to search for different airline's flights details. Also add functionalities to book a tickets for specific flight with database support.
<b>13</b>	Develop a java application for Online Recharge Portal which helps customers for online prepaid recharges and postpaid bill payment with some offers and coupons etc. Cover all Telecom operators and add all possible functionalities with a strong database support.

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