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| **Computer Science Techniques**  **Software Testing**  Course:  **Web Programming**  **420-PZ5-GX**  **Final Project**  **PROFESSOR:**  **Alex Sandro Steinheuser Vilvert**  **SECTION/COHORT:**  **01128 - 05111** | **FILLED BY THE STUDENT:**  ABHINAY KUMAR REDDY VARIKUTI  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Student’s Name**  5348045  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Student’s ID Number**  2021-05-23  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Date (Date (yyyy – mm - dd))** |
| **EXAM RULES:**   * All students must have an ID to confirm their identity. * No student will be allowed to enter the evaluation room 20 minutes after the evaluation has started. * Students may not leave the evaluation room during the exam period for any reason. * Any student who arrives late will not be given any extra time to complete his or her evaluation. * Students may be assigned a specific desk/location by the teacher. * Students may not bring any food or drink other than water into the evaluation room. * All communication devices including but not limited to cell phones, smart phones, smart watches, iPods, pagers and Web-accessible electronic devices must be turned off and left at a place designated by the teacher. Failure to do so may lead to the removal of the evaluation. * Cheating attempts or any assistance offered to others will merit a mark of zero on the evaluation. This includes but not limited to speaking or looking around the evaluation room. In this case, the teacher will seize the evaluation documents and submit a written report to the Program Coordinator. | **FILLED BY THE PROFESSOR:**  **Evaluated Competencies:**   1. Analyze the problem 2. Create the Logic. 3. Produce the methods. 4. Program the classes. 5. Create Validation. 6. Test the Code.   **Dead Line: May 21th 2021**  **Materials Allowed:** Your brain <3  **Total Mark:** 100  **Mark Obtained:** |

**Note:**

**Microsoft Word or TXT files for the will not be accepeted.**

**Image files will not be accepeted.**

**Exams sent by MIO will not be accepeted.**

**The correct method to submit the project is Compacting the Project folder at htdocs and submit at LEA Final Project Assigment.**

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| Student ID | Student Name | Final Project |
| [5300720](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117860547&C=MTX&L=ANG&Info=UUpoNnlqdW5FSVl2QmRaLzJhSUYrTVUxUjB4bWRKRXhEOXNXRmw2bW1vRkllYThmUW56ZGRzV0xLRXhBTUxJZHVQamc5SjFTNWEwTVU1SER5TVI5K2Z6WjVPZDI1b1lOSS9yU2cxWEs5Zzdvd0FqbVY1TVgra2VHTE0vdzdVdUI1ZE9WbVg1UmpjblhMVi9jbUJvRHNnPT0_) | Amritpal Singh, Amritpal Singh | 1 |
| [5364173](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117529426&C=MTX&L=ANG&Info=d0k3K254c04xWXVGT0ZaNVIwd24zdWFmejRucnVYQlpoRXpVU0hUV0VlRVJ0QUNCcTd1Z3gyM2xWT1BOVXVCdmszUzlnUlRvQlBROUJiYTVVdGlFTEFqcnoyWW5vWmhtT3F0Ymc1ZXNpTGNSa0ZwWWJKM0JVMzhOSmE4SHpjWlh2S1pxemMxUFNwOTBhWUcyV0dqeGV3PT0_) | Bhagwant Singh, Bhagwant Singh | 2 |
| [5372403](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117257210&C=MTX&L=ANG&Info=ZG82MktEY1p1ZTJBSW95YzE2anNuSVhhMnFUMmF0VVpOSmNjK1BwVHRocHdNdlAvcU8wcEZ3YnZtc1dZNjhOTlIvVjJVbjJoZGZaR1B1ajI2QzR3Q3lHeFVLM2RpSHhhbGFsbVdPVmVKRWNhdmtleEJrSndZb0Y2SU9jQzVFNVNsNUxzaWphUTJBWkxaMXE0TXlyTXZnPT0_) | Bhavsar, Bhavyakumar Jayeshkumar | 1 |
| [5266011](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=07511711540&C=MTX&L=ANG&Info=eU15Rm9hZ0RkaC8rOWMvb3VnNUNPQUgxb1luZGo0Yk5nRTI5bmU5N2JFY1llQTNlOGEzdzVoUmhtZllEai9aV1h3QTkrU2w3bTlzUUJFeEZ6TVlHcURJWFJIWll3YmRWTlloYlc4UkVybEVnRGVLeEEweTVPZnVacEtvRVd1a3RtS3lHeEdBUEMvUzFLeU81WTNlMGNBPT0_) | Bhuker, Ritik | 2 |
| [5422458](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117748552&C=MTX&L=ANG&Info=R3pVS2Vyc2d2c05aVE5uREtkN25nVEYyV3hXeXBWTVZTVCtEQkhvSzMzZGRsNHl3YlVGWXVHUXZNaU1WdmlEVmhWZ1Zsd0FkbmhtRjRGUFEwSDVhMnJTMzNoREVQU1MzeFBUdUMvMUpiZStHaEh2VHIxYkppQi9GMnVZSE1KajZUQ2l5aTJ0TmZqam5kNmQ0eTFLK2x3PT0_) | Bogoju, Rakeshkumar | 1 |
| [5407606](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117271937&C=MTX&L=ANG&Info=NTBNUGkrODNENjJ5cTVwMkg1U0RrTHJCY2QycGd2WkVobHhPWXY1MzZpcVYyZkZpMlZIeUVtTkdPa1hLYklnd2Y4a203WENkQnJSUnNwV2lIbkdPRmp5eXBWcjNnd2I4M0dRclhmSzBDc281aU9WOU1yT1VtNHJPT0hUNysrMklHR2lhOTFRSEFicStTeFhTd0U1UWhBPT0_) | Buultjens, Trizann | 2 |
| [5294834](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117701781&C=MTX&L=ANG&Info=Q0wrRWpHUWxRNzJFUnlnTWlMa3lTOSsrVmZEYjRoRzIrR2MvUHFSVS95djRMVlJXc2lFc2IzTnB5WDQzVkpDUnZ2R1Z6ZmFBVkpXdVdZc0RZeWoxYjBFejlybTgyN0lScHZtWDZ3NVZaMVk3Zis4T2NjM3FYVHVpWlkwSWhPY2thQUVoZkwvZElwVWpMRFA2RFBqYjJRPT0_) | Choudhary, Arman | 1 |
| [5412594](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117943407&C=MTX&L=ANG&Info=aHR6OWZ1K0hMWHJLdUlSY2JleEgxNjJmanhGTi9TeWx4RzlYTlZ0NnJqL2tyeVF3UEJ2MytveGx6dGlkV0RVV0MzT1k4WjhONnFDdzIvZWwzNUNYcUMzNG5hRHFXWjRobHJYUFdVZi9ydWpyRlRyWWpnZ1RIMDNNTkpkeGhNUDVRd3hJV1F1QytVZU55STNPTDM2eTNRPT0_) | Dassa, Djamila | 2 |
| [5293986](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117218530&C=MTX&L=ANG&Info=cVg2SkR5YmNpWjdHRmszdUREcHhLdXVnQzg3U3ZocDZKRUV3TEpCMmRrYXIwOFB0bGVkSUpoeVR6MUU5MTN2YjRINnk3b1hkNzhsaGt2WkNCN1haa2R5Zkx4aTc4MDlmdjBrekN3TWUzRHJMY0JQeHpHL2ZuRElzcFdiUHp3RzhReDY4dmo3ZHdpNEdVUURwM0YwclVBPT0_) | Dhillon, Kunwar Partap Singh | 1 |
| [5364449](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117862001&C=MTX&L=ANG&Info=ZzlWYStjZlZad1NjVWoyRFF1Vm9Fakdpenp0eHRTTk1uekd5UjNpSHRUV21tUmxLa3lrSXdUTjlEK25lVTFUdmFZdUpYWlE5d2FvSWtNaUMyNENoMWovemsvOUViek1Vb2VWeFU0OWQ5N0FvWGlNT29HcUlYSW5RczRvcFhPclM4Sjg3djlNMUxzZGJhUWpkaWVnNmR3PT0_) | Fafale, Milan Dipakrao | 2 |
| [5350716](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117197168&C=MTX&L=ANG&Info=dzNsSXZqN0lxOWJkL2lwcjRuK29CMmQ1amIwMEpSSEJkTkpqMTJnaCtURFBmQ3Q2RUlqNTloc2hYMXRnRVY2VG0yWkdCWDF4UXo1dmh6YjhVV3hxR1FqdjlHcDhPSExFU09iMU9nZzhEeHNmY0s1aXRKVldKRUpvdHF6TUlqTmpQS01XTE14ci9OV2MwbWZpdElDWGVRPT0_) | Gagandeep Singh, Gagandeep Singh | 1 |
| [5362542](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117926089&C=MTX&L=ANG&Info=QkV6eHVpbERIZVZCS1h4eEtXZXY0NTdhdmFVc3VLL1NsakVCNFcyVHlBMDR5NnBhN3FkV0xvVU9yaGF2M01CMHRPZEJhNkltdFRlMHVIbldZQ0h4UW5hcTFrWEZacWZaUjZPbGU0RDFFT3JOMHFielhpUGhObXBHalVmZzhSaU0wNXp1dWJkR0RTMjdtTGxPeWp6ZDN3PT0_) | Gill, Arshpreet Singh | 2 |
| [5413182](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=0751174904&C=MTX&L=ANG&Info=a21YZHRrRWMycDZpc3dLdjVtYjVhYmpnNkVCc2hVbXFRLzFaN2NWWGd6SDFYc1pHLyswendaMkI1SnY2WnhQbUNjQjA5dU9rRS84TVRKcUQ1YU9IOHlXaHdOaXN6RnZvenc2dVZvQnZMT3k1by9TVmxrM2dBOE85azJLSVNzNlFmM09qU0NicmtzNFZnaCtuSDBIaVBBPT0_) | Grioua, Badia | 1 |
| [5368163](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117502881&C=MTX&L=ANG&Info=MVNpMjNrYTZ0cE1uVFNXeHBWbGM5T0toYXduY1JpaHRuMCtPWitlVHhsbkozREJyRURoeXRqVXpHM3hadE5TLzhkR0s0M1FYVzBBd0V2RGkranVkaGd4dG94R3VlQU5Ddk8rYUdLdld1Q1dPWXNXVGNZS2E3Mmg1OHoycy9lUlVBMXRkYW92d09lRTdIUHFDaVhudW53PT0_) | Jashandeep Singh, Jashandeep Singh | 2 |
| [5235449](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117274528&C=MTX&L=ANG&Info=TSs1ekl0amxVZ2Z6RENIZGJBc3V3cHBPQldkTG8vUTNzWk14S3d2enozMGFBdzUvYWxzdmo3dC9rUG5pQzJDZHdDZWNhTnVEbEM3OVFSNGVLVEdKWXFyVjNWVGhxcjRZdlZTZjhUUk4rQU9nalRMNGV4bGVFd1VYcmxzdmlGR3g4a0txSys0dmhIamsybHFCaE1OakVRPT0_) | Khanlarzadehkolaei, Yaser | 1 |
| [5349119](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117225166&C=MTX&L=ANG&Info=dkt4amVwclJGQm1KaWZMZUNtZ1JLNFcySllxbFVYMDBRS1dMVjZDOGxBV2pSZGJoZUNqY1EyZjl1aWdQL1k5cnI0U0dURGtnNENuendXVkhBMGhjdS9pMGVZVytXbGNRL1Q5dFB2Ukt6czBlWVRjZitHMzNFaG9rSCtwa1RwYVBDc1RPTmIxeTk2V21TNmE4UFdKQXdBPT0_) | Khinda, Chhapinder Singh | 2 |
| [5350912](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117107672&C=MTX&L=ANG&Info=SEhyaE8zTFp5aFpjc21FcTZFUXJ3d21LdktaMUFWZ3pkZFRrbVRTM2MyS0lrb2NtdmVLOVhhazZQWmZCZWVpeXl3MkJJRVhjajJXaU5KdkhjbjVML3VTQnZXUnl0SUVEb01NaTRCeFF6RS9NKy8xb25IbTQ4Zm9uNnBXMVlxdEYvR2NCeHV1R1ByTVNkZVRuVXhwN29BPT0_) | Kommineni, Srikanth | 1 |
| [1952650](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117460156&C=MTX&L=ANG&Info=ZjA1K2NVMkk0ZGpzTDA4Y2lIanhVMnY4QStQcEhnNnd2NWZpZzJuMHRFeGFiYXhoQlRreFZVbk9KY0FiZWtOYWt1UFZkTS9WSkVFNXpFVzdtcXJscndId3F0VGVFWjVPUXZxMkh4WFFBZ25SUHJRWTc0c0doM2tpL0xzUjF1a2dKdVhpalBuOUpzSGhqOE1sS1NGMW1BPT0_) | Lovepreet, Lovepreet | 2 |
| [5362251](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117419016&C=MTX&L=ANG&Info=SFVxZTkzYXZUSmZNS1lOSkZ2MWg1cDhUTW5jZkJ2SWJGK0d1SmxVMThpQ1pXMFBGdjNFaEtmTzRyektRZXJNaElsQ1RPbGczU04wUXNFb1ZZSGJNZnJtL25YRldOZ212TjVxMDlpVUFGeGljRFdDWFgwRnlGYTZNczZCKzV0OXpjNWJKamdqejRSay8wazlVSE1JSGl3PT0_) | Munish Kumar, Munish Kumar | 1 |
| [5374212](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117856950&C=MTX&L=ANG&Info=U3RzeEFEWmh2eWVTa0toeERsUnAyVFRVSHp5T0JVWEViTEtlZ3dDc3l6bUlkSXdXKzR4YXRxZ0krR1d4Sm1aKytvYnZhWEw5cE1MVmlQdUtmVkZZeklVZWFxR1llc2hQbURRclJFN2dxZ01MaHQ1YkVFUGVneFBoNlloSU1iTlhaZzVwVjJHMWxLZmFHVXRaamV1VGJRPT0_) | Nomula, Praveen Reddy | 2 |
| [5384737](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117277567&C=MTX&L=ANG&Info=bGMyUGIvWndHYWJPN3RkYUNOalhOQVBoWjRLVEN5NGpxci9qMFFDQkRHbE5Cdzk3Nmw5S3pHeFRmaHczWndpUm9XV1IvcjVpeElhK2RGSUVJMlNtUDFJTTEzM29GemlSYndJVEFsMHc5RTJrbnMwUkg0a3ZadVpvSU5KZU5OVWh1eHUyYXdRRmtYMzJUN1l6bytJS2FBPT0_) | Ogbeiwi, Uyiosa Prince | 1 |
| [5298261](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117750137&C=MTX&L=ANG&Info=bTVXbUhWbXBjckxLMG1veFplZ2dKVXJvK2ZEWTR2Q3F0cGM5M0d1aGpuODVwdXE1YkhZZUFETGZ5eEJVWnJKUDFvWXlSTVhubUszc2ZJc0EyWVdOZ0hVQ1AvNWlMVDRCWlZ6SWJlKzMzL0trRTdsR01lUHNWMVpaY3FuT2swWCt1NnYyZ1hWdVo5MlAxNEprYVJXMkNRPT0_) | Pardeep Singh, Pardeep Singh | 2 |
| [5364661](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117863586&C=MTX&L=ANG&Info=Q3hkT3EvWHNuYUg2cWxIL05sWWN4OEdHS2FmMnRQRXIyTjNGbWxZeTVhci9LK1dFbkZqQWZXclZlaW94VDU3RzdZK1dQS0JkdVRJTFlTa0dMWEdvQVpuN21UVTZhcVB4QlBVNjdFRURBRmZ2MTQvVGFuTFBhZFZzMU0zdkN2OEdVOUtvNDZoWUQxd0tHRHBXdVF6ditnPT0_) | Parmar, Paramveer Singh | 1 |
| [5368229](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117788817&C=MTX&L=ANG&Info=dUQvM0pXNzRveXhUbG5SUEJTdzdpbDV3cjRpbVZCaU10ZGxVak00KzlmU1F2TU1VdkZJSWpFdnIyTkNKdVZIZU10NUdqdlU2TFR0dzBLdGw3bEg4ZnppQUdkd1ByeFFXWHo4eVgxZXF3cWk5UTJGblJCMzBaREJkbVpPOGd2SFBmaGc3VExTQ0hLU1FiekYxRU1hbUlBPT0_) | Patel, Divyakumar | 2 |
| [5294779](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=07511713125&C=MTX&L=ANG&Info=L2xUOEJCL20rWFN4dTREbmRSQXlvV2t5ZFNhWlIvMC82RmNEc0dKZzAwSDFHanR4NndrQlZTMWpEWkdDSENPdzVBNFVwRWVBM2NWZzJ4bk8yb0VKemdEbTQyUG9Tc2xhN1k1bFNYQXY5U0ZZbEgzQXhzRVVnUFVvejZJaFdEaFNUVkdRbWlaa3BRNHJDc1EvVTliZmlBPT0_) | Patel, Kathan | 1 |
| [5294510](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=07511774622&C=MTX&L=ANG&Info=c0N3QklTOStSSGVBMDE3RlNvSW9mWDd4aFpsYk9ncTBtS0ovWVdlaUtndTJTQXI0c2Erc1pZU3dDdDhEWEtiTWhXbzlobGF0QnVnamdyUnlyQWQyeU1nRkhlelhoMUppTTA0WVgrTDkvQ1RSWnJRNzRXYzhsOGtrdng3OHN0aFFqaDVSMXRlM0pMRDN1VUVZWlppT3FnPT0_) | Patel, Man | 2 |
| [5370114](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117358973&C=MTX&L=ANG&Info=NDRkVnhwSnFqUmE4SnREcnFrQXNOak4zSHNJcjE4Z25SSEVuUHh4NW9HV25aQXVjSjhnWTFvWDJ3a0lPTG1KNkQzQVQ4VWFaUFpObUpyREFVODA0c2dlRmFhaDFmc2VxNk9KUTJkL1V2elhleFlrSld6czcyOUZjT25mNkxNTS9icVBKSThuTUF1L0x4a3Bjc01IcE13PT0_) | Patel, Renish Rajeshkumar | 1 |
| [5341131](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117771499&C=MTX&L=ANG&Info=eEpDQ0FGbXIvQU5mUld4RnlRR0VMaS9Oek5aOFJSb01CM0tzZlBVWXc4WXZBczRtckhnV041clQ2aXRoZ0U1MHFxTW82K3VxWnBCcFJZcWladkg3SG1NWUxtQ1diRmI2Nlc0QUVtWnorS04zR1NzUjJ3eUJ2WkF4eVNWUXVndEV3SkxNay9Nak1rYXpHam1sVUJHTnhnPT0_) | Pingili, Nagesh | 2 |
| [5297837](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117799498&C=MTX&L=ANG&Info=S1FQYk5rWDJrR0hkNzVQMGd2cUl3VzdpRmFVUktEdDVna2FkSjErVlJzNjB2MWhIN3JkOGFvamlmK3NqMmJ2OUxRTE0vdUNlRWoyLzBFRXlTVllRUTk3TDFOQVBjMU9lMWFUcWxCRWd6Vk5VRlZlczJrVkxlREVVUGVRT0dHUlppVTNWQmJKL2UyQkF0Y1JMUFF4MUZRPT0_) | Pushpinder Singh, Pushpinder Singh | 1 |
| [5295047](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117981081&C=MTX&L=ANG&Info=aERxcnArekNJZmxMK2g3TUp1VnVod0NJZFQ5WkpLVW5XdjFWQUUxS2dqMDVhdU1sanI4Y2kzbFRtSGFMK0VXbzExeHcySnozZkszdlZMQ1pOZTBGRVFudlpuV21BQndMVVJKU0xXakNqK2ZGQ2RIR3FNalpXTFAySmFvenMyR3RIRnhwOUh2dnhibXI4WGhJNWpTY0l3PT0_) | Saini, Harnoor Kaur | 2 |
| [5356526](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117170754&C=MTX&L=ANG&Info=YzVwVjczVUFaTURKVzYxSHlkWlp6R2poQTVzWmNvdjhJbVJseTFCc3grTjRLR0lyR2RwK1Q5NDhNRVA2V0lzUGlPM0Y0dE5MakdRNngya3ZSdHZPTWxFSEJYdDhrOXQ2cVI2WnpOZVRyR0JUMmNjZ1ZJZ0lDcHhBQnlDTllIc0RvZU1zcWlheUc3R0VNYld0MVVkd0NRPT0_) | Saini, Sanmeet Singh | 1 |
| [5297875](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=07511770577&C=MTX&L=ANG&Info=RE5sYXhNbWVKbUMyKy81VXBVSEhIdHpJeW5JenJFRC9nd2RROWxmZ0FGM1VZbkhPcThCUTd3T0QzTnV1U05mUDM2VVRYNGMxWjBWVEdxOGptUGM5TEpTYXhySFNsQjdNdWs3TEFwMnFWN3lDUml5b1JqTk1tNGkxMWllYnZTb1F0SjJxZkdyWGhzNVpHUW9ndWhKMmdBPT0_) | Sajan, Sanoj | 2 |
| [5355366](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117636687&C=MTX&L=ANG&Info=WENWR201QXd5eUNtK2RtSzZsOW45blNkb0NkL2VHY3RRcVAvSEpxMWdQb09VeDZlTFhmeGg4TDBxMWJEOU1FV0dIdnNSWjA3NElzc05VOU9tbWpCY2tCWk9VMUdBRlNLQmtDZm5lUjZDazJOa2JWeXJhTlhqUWsvbWw0N0JHRnlzWC9IUEova3paa3ExSUdKbCtCUlJRPT0_) | Sharma, Varun | 1 |
| [5349127](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117938356&C=MTX&L=ANG&Info=ZGltWFpOL2VnelppYllSMStPU2hMVXFISm0vanJhSElMWW0vMnRIaWViMGRKYWVEY1owRTZ2aDhKS3gxVjJyRFpIMFZRZjdUbWdTZmhjZ2dpK0lBWkNYT280Tnc3M3VxMmowaXJXWGh5WlVZTTJaQk1kMjhyYVp6SmRuWVFmU0c2Z2tGZDI1VGNBMWlRbUhRYjNoM2tRPT0_) | Singh, Armandeep | 2 |
| [5351358](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117298930&C=MTX&L=ANG&Info=UzYrNEJsOEZwdVdkU1EzRTBRamlXMHNmdi9RbGdGUGJtR0YzSHNVK3NvYjdlNlF4S2RJR3paSFJjd1RVQ21ac251cHRpK2d0VFUzeDg2RXA1S1NDR2dvUklYUWNXR2VCWDBCaHFrWWVoM3JoWk1LT1JXdnVLVU82azYyQ29KWWFvUFRkVjZGWFJKVnVmeXVMY0tmQlhRPT0_) | Singh, Harmeet | 1 |
| [5362491](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117420470&C=MTX&L=ANG&Info=bkVMN3dwR3dBOVFvMXJJSjJlbG0rcEF6Qm43OUVlVHo2MkZ3QVhhNFRxRDhXNDRZOVdLRzBLMWlTVlBPNkRSd2pQMlU0N3FSZ2h2bkdUTG5pbVFoVmZ0NndaajZ6QkxuQndrOGdPV2FoZ0RUTUx3ejRUTVBKcExKTWZEUDRWWVM3amxnWWNGRVBrZUxUVDJUZTBSM2VnPT0_) | Soni, Harpal Singh | 2 |
| [5344467](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117790271&C=MTX&L=ANG&Info=UEdVb0NER2JqT2xxL3ZMT0hTQmtvMUM3bk96dDM4Q2NRNSt1UnZMd0dsNHJUdnJKQVVRaGxsMERGaXNPZlZyZ0dKTWxXUU5KN0Q3RkpwL0pyVWJ5OFd2YVYwQ3lNSjFWTzhOWVY3blJ1b1U5OC9Fcm9qWjF0d0ZtVUFQTERrQWpIaERnOHlZcWZxaUl5TVVvenJUSXZRPT0_) | Sukhmanpreet Kaur, Sukhmanpreet Kaur | 1 |
| [5368250](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117680867&C=MTX&L=ANG&Info=SnF1T21saGVvNGMxUGJ2cE1nREhKNEhwSG5DZ01vVzdWSExvTG0wNFZURXdDc0c2L2U0U2JsaDBGQlJnUWVmL1psVU9kTnFiNEZPUWFpR0NXdm1zMTVFaWdOV3d1L0RZYndmSllTbis1YlJzZll4bjBvVnUrRDhwUlFlWDdseUtMbFpGc3lBQjdLclo1ajFmOGN6VkV3PT0_) | Sultana, Zubaida | 2 |
| [5340100](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=075117477921&C=MTX&L=ANG&Info=RDhUNW51VkpjOTFNaFVXaXF5b2tKMzlUbDJSSjVMYzl1cDc1WFo0SUlUT09HRTk4S1B1Y0IybWFHdXo0Um1LdjIrc01lU0c0dXV6WGJFdm9zdG15c0JzVitUN25UdXhOZkpSOHl0b0tyR29tTkIvQlZJOFBmOGVQUkt4ZzRVcHBqQUFYNnFUZkJ5bWxBampudWlINGpBPT0_) | Valand, Bhagyeshkumar Maheshbhai | 1 |
| [5348045](https://www-c37.omnivox.ca/cvir/ente/AfficheEvalEtu.ovx?NoGroupeAff=420PZ5GX%2E05111&IDEval=&Ref=07511786757&C=MTX&L=ANG&Info=WlhIVnlKbFJ0bFZzcVFnMVBYdW9SVUpvcmtMd29ZSW80cTdTSTk1akxIRHhFUmZ5cGRQbkZZRTBpSDlCOGw5SHQvNDd0ZHZBRnc2TnMvUDhaR2JOVU40VnplTVFmZnZFVE5oNG5pd3pLV2RvbnNwZjVlMmpSSWFleU9HY2E2YnN3QVR4cGV5L1paSnBkRmV0aWJiUmZ3PT0_) | Varikuti, Abhinay Kumar Reddy | 2 |

**PROJECT 01: CLASSIFIED ADS**

The project consists in designing and developing a web application that manages classified ads.

The project is divided into: Design, implementation and validation of the database using MySQL relational database management system. Development of the application and implementation of user interfaces using php.

**DESIGN OF THE DATABASE :**

The purpose of this step is to design a database that corresponds to the information of web site that manages classified ads. (Eg [www.lespac.com](http://www.lespac.com/) or www.kijiji.com)

To hel you, below some information / guidelines to consider:

* 1. If any user wants to post and Ad he must registered to Ad web site
  2. To register : the user enters his name, address, city, state, phone, email and password (you can use for the identification information : the username (=email), and the password (its length is greater than 6 characters and must contain at least one uppercase and lowercase letter and one digit)
  3. Any registered user become a member of the system and can be either (administrator, employee or member)
  4. An Ad belongs to only one category and one sub category.
  5. An Ad may contain one or many articles (the articles are given and entered in the Ad description. The article information are : name, price, quantity, …There is no question to have a logical structure to store the article).
  6. When the Ad description has many articles that belong to many categories (and/or sub categories), I suggest that you assign the Ad to the category: “no category”.(sub category : “no sub category”.
  7. Each ad has a start date (register date) and end date (expire date)

**IMPLEMENTATION OF THE DATABASE:**

Using MySQL, Create a database and add some data (choose a real data)

# Validation of the database

The goal of the step of the project is to validate your database by answering to the request bellow

**Members:**

* Members: (id,name,address,phone,email,member type,password)
* Member’s ads: (ad id, description, register date, expire date, image,category id)

**Payment:**

* Member’s payment : (ad id, payment of the add, total number of images , total payment)

**All type of Ads :**

* Ads per category : Ad id, ad description, image, register date, category id, category name ordered in descending order of register date

**DEVELOP THE APPLICATION**

1. **BUILD USER INTERFACES AND VALIDATE DATA**

The purpose of this step is to design and implement user interfaces using HTML, CSS, and integrate php. **NO BOOTSTRAP!**

* Provide a field to confirm the password
* Do not forget to do the validation at the client side

**Note:**

* There's a member who is the administrator of the site. The latter has the right to do all the operations on the data (add, update, find, delete, and suspend a member, disable ad, etc.. )
* **Category interface** : In this interface you enter different categories (and sub categories)
* **Ads interface :** This interface allows manipulate ads and provides the following tasks
* Post : add, modify, delete and view ads
* List all ads of a member (including the status of each ad, total payment )
  + **Design of the user interface of the website**

**category 2**

...

ad-section 2

**category 1**

...

ad-section 2

**category n**

...

ad-section 2

Search: ............

ad-section1

Menu

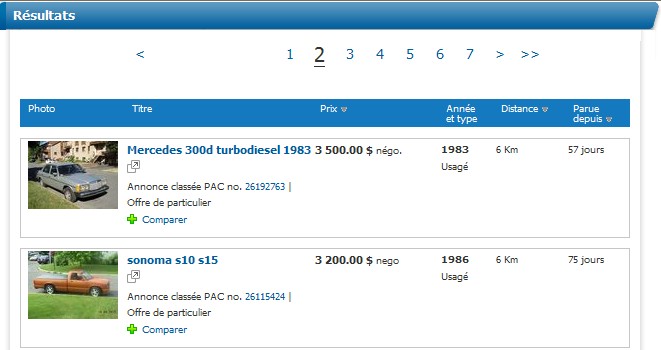
Menu : contains like the options : Register, PostAdd,... ad-section1 : contains ads ordered (left-right) from recent posted date..oldest posted date

ad-section2 : contains category1 followed by a list of adsSearch : Find all ads that meet the search criteria

# Example 01:



**Example 02:**



When you click on a specific ad, additional information will be displayed



**PROJECT 02: ONLINE CLASSIFIED RECIPES**

The project consists in developing a web application that manages classified recipes.

**Database Design and Implementation**

**Important note: The implementation of database in phpmyadmin is not a team work; you cannot use the same names of tables and attributes even if you are using the same database design.**

The purpose of this step is to design and create a database that meets the following requirements:

* A **recipe** is described by **Name** (e.g. Quick And Easy Pizza), **recipe Date**, **Preparation Time** (e.g. 15 MIN), **Cooking Time** (e.g. 12 MIN), **Servings** (e.g. 4 people), **Ratings** (e.g. 4 stars).
* Every **recipe** belongs to **one or more** **categories** (e.g. Pizza, Super Bowl, Weekday recipe), and belongs to **one meal type** (Appetizer, Main Dish, Dessert).
* Each **recipe** has a list of **ingredients.** Every **ingredient** described by **name** and **quantity** (in a specific metric) **needed for the recipe** (e.g. Ingredient olive oil**,** the quantity can be 60 ml, or 1/4 cup for the recipe Quick and Easy Pizza).
* **Every recipe has a picture.**
* **Every category has a picture.**
* Each **recipe** has a description of all the **Preparation** steps (e.g. 1- In a bowl, combine all the ingredients. 2- Season with salt and pepper.3- Preheat Oven to 210 °C (425 °F)...)

Any user of your application (members and not members), can search recipes **by name**, **or category**, or **meal type**.

There are two types of users for your application:

* **Visitors,** users who are not registered. They can just **search and view recipes**.
* **Members,** users who are registered. They can **search and view recipes**. They need to **login to access** to extra functionalities, like: **manage their favorite recipes**, and **rate** a recipe.

If any **user** wants to **become a member** of this web site, he must register by entering: **Username, Email**, and **Password.** If the Username or the Email is already used by another member in database, then you have to ask the new user to enter another one. Once registered, the member can login either by his username and password or by email and password. If the user forgot his password you have to provide him a link to reset their password.

**Bonus Questions (Optional)**

1. You have to implement an **advanced search** by specifying **(with or without)** **ingredient** for a category or meal type. For example, a user can search recipes of **Appetizer** **Category with** the **ingredient cheese** or can search recipes of **Dessert Meal Type** **without** the **ingredient peanut**
2. Every **recipe** has **Nutrition Facts** of 1 serving (e.g. **Calories** 635, **Total Fat** 33 g, **Saturated Fat** 10 g, **Sodium** (salt) 1005 mg, **Carbohydrate** 56 g, **Fibre** 3 g, **Protein** 28 g).
3. Members **can read and write a review (comment) about recipes**

**Development of the application**

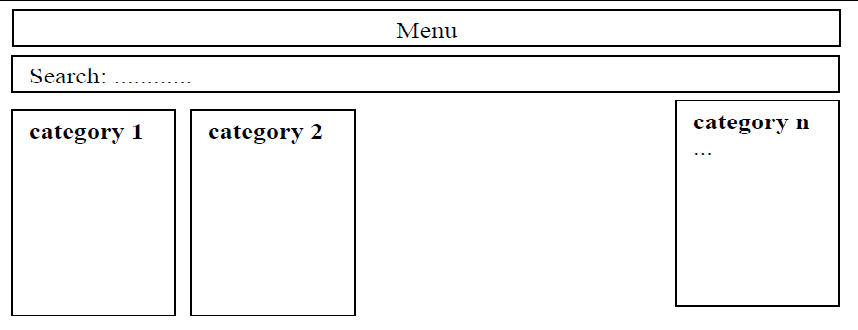
**Design and Implementation of the user interface of the website**

**Important Note: This task is not a team work; you cannot use the same CSS template even if you are using the same database design.**

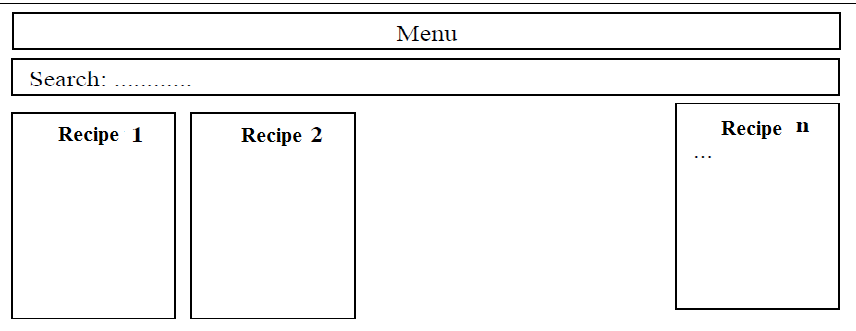
The purpose of this step is to design and implement user interfaces using HTML, CSS and integrate php. **NO BOOTSTRAP!**

1. **Create Home Page:**

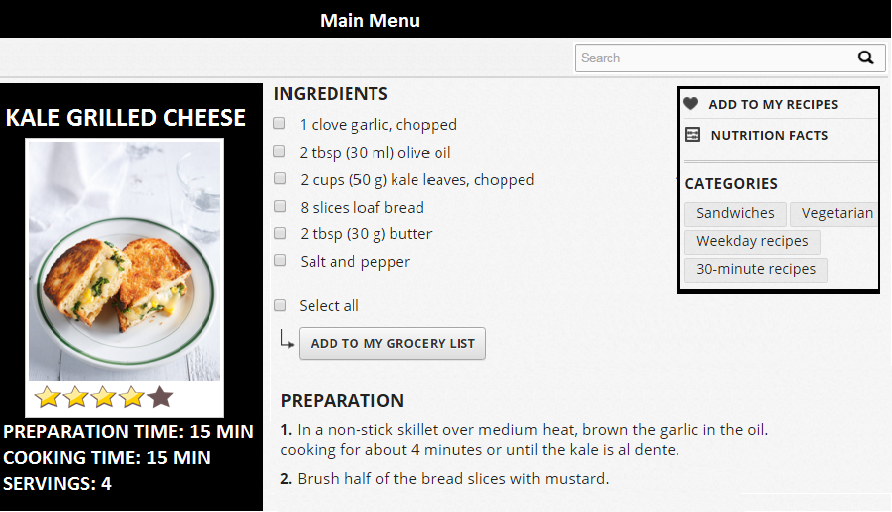
**Menu: contains the options: Home, Register, Login**



1. **Create Category Page:**

****

1. **Create Recipe Page**

****

**Database:**

* Located in Database Folder
* Create the database with name ocr
* Import the database ocr.sql

**Credentials for the login to the website:**

Email: admin@gmail.com

Username: admin

Password: admin

**Database:**

**Users:** Contains all the users and their credentials for the login

**Category Table:** Contains all the category of the recipes

**Meal Type Table:** Contains all the meal types of the recipes

**Recipe Table:**  Contains all the recipes

**Recipe Categories:** It contains all the recipe id and corresponding category ids for it

**Pages:**

* Index.php – starting page of the website, it has link for login, signup, and search Recipes
* SignupPage.php – Page for the user to signup by entering his personal details
* Loginpage.php – Page for the user to login with his credentials
* Dashboard.php – Page displayed after logging in, to search for recipes
* Myrecipespage.php – Page to view all the recipes that particular user has created
* AddRecipepage – Page to add a new recipe to the database by the user
* HomeRecipes.php – Page to search for recipes without user logging in