**Delete this box when your report is finished.**

**ASSIGNMENT LENGTH**

* 12 pages maximum **including** cover page, table of contents (TOC), references and glossary (if any)
* 5 pages minimum **not including** illustrations and TOC

Project/Case study

(6/11/19)

By: Brad fox

ID: 10000703

Paper: COMP.6109

System Analysis and Design

Assignment Two

[1. Current Car Parking System 3](#_Toc23924916)

## Business requirement identification

|  |  |  |
| --- | --- | --- |
| **Topic** | **Functional requirements** | **Non-functional requirements** |
|  |  |  |
| **Element: Vehicle entry to building** |  |  |
|  | vehicle is detected by sensor under the road | Constraint: Size of vehicle. |
|  | ask for customer to press the button and wait | % sec to process |
|  | the system must check first to see if car park is full |  |
|  | what things must a customer do to get a ticket |  |
|  | system must make a ticket for customer | ticket must have dd/mm/yy time |
|  | ticket must have dd/mm/yy time and maybe parking spot |  |
|  | system must make a ticket for customer |  |
|  | if the carpark is full gate will not open and display will say full and no ticket will be issued |  |
|  | the carpark interacts and response vai a data and software program monitoring the spaces and stuff of the car park |  |
|  | if the customer takes a ticket and dos not enter cp then the system will detect this and data base and cp will update itself |  |
|  |  |  |
|  |  |  |
| **Element: Ticket payment system** |  |  |
|  | the system needs to keep track of the tickets issued and payments made/not made |  |
|  | date time and payment method must the ticket have printed on it | bank information/ payment methods |
|  | the payment system has available for clients should have efpos cash web transfers |  |
|  | the system will not give change back to deal with excess payment from cash | calculate the exact amount to pay |
|  | things should validation track/measure is the date and time of tickets |  |
|  | what should the system do if eftpos is unavailable should opt for other payment methods and if unavailable have a call button to talk to a member of staff/afterhours |  |
|  |  |  |
| **Element: Vehicle exit of building** |  |  |
|  | the system knows the vehicle has left the building vai ticket being paid for and sensors |  |
|  | the system is sitting Simi idle counting the hours/mins till the car leaves to make sure it’s not over /under charging for parking |  |
|  | the system would send ether txt or email autogenerated to staff member saying an error has accrued | staff interaction to review system and find the error |
|  | the system will not open gate if payment has not been made |  |
|  |  |  |
|  |  |  |