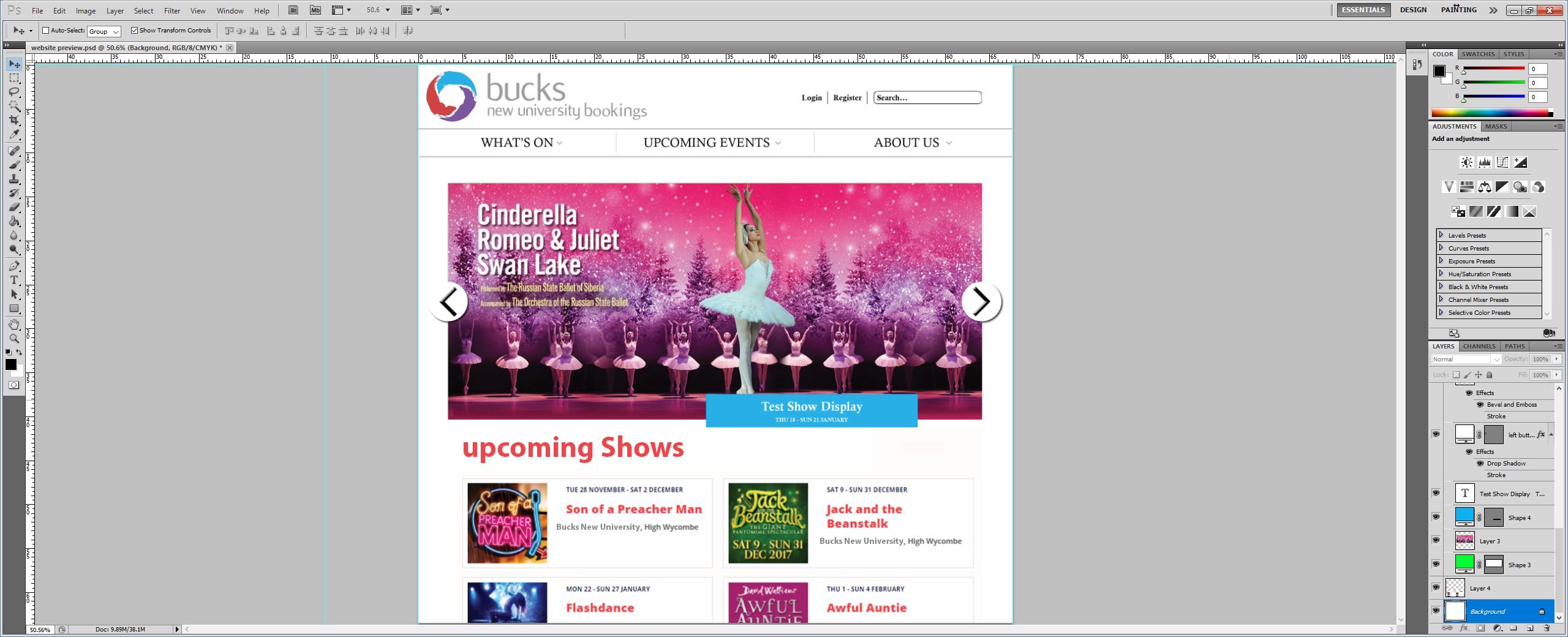
##### Annotated Screenshots

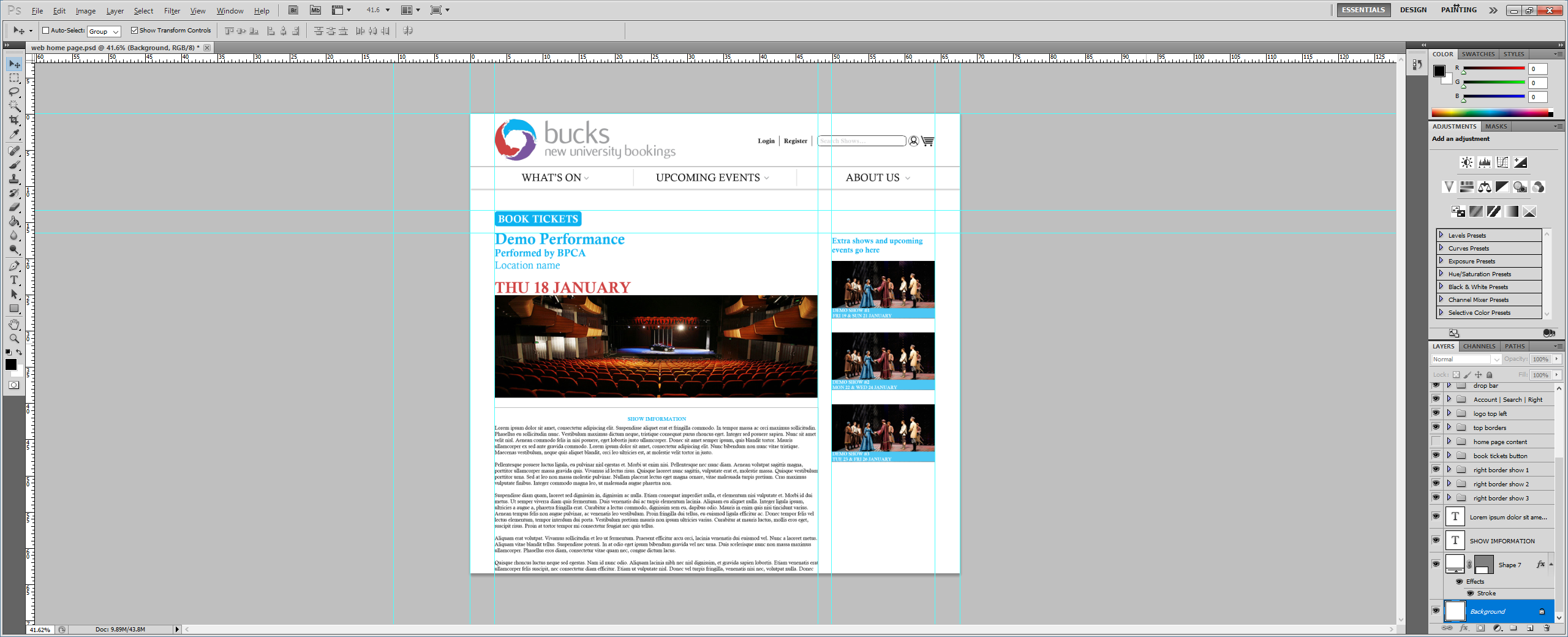
##### Home page



###### Screenshot Description Table

|  |  |
| --- | --- |
| No. | Annotation Description |
| 1 | The accounts bar will exist across the whole navigation section of the application and once successfully logged in will change “Login | Register” to “Account” while maintaining the search function from every page during navigation.  When log in is clicked it will load the below login screen which will also display another registration option. |
| 2 | The navigation bar allows the user to navigate shows in certain ways.  “WHAT’S ON” will present a list of current shows that are currently or soon to be showing.  “UPCOMING EVENTS” will show a full list of currently scheduled shows in date order, and also allow the user to search from the selection by either show name or show date, this can also be done in the “WHAT’S ON” tab.  “ABOUT US” is a page dedicated to the BCPA team and University to give a synopsis of the team and any relevant information they would like to share with the public. |
| 3 | This is a scrolling screen that will display current popular or prime events and draw extra attention to desired events. |
| 4 | This is a less detailed version of the “WHAT’S ON” tab which will just display a small amount of upcoming shows in date order, the user can’t search from this section. |

##### Display Selected Show Details



View available dates

###### Screenshot Description Table

|  |  |
| --- | --- |
| No. | Annotation Description |
| 1 | This button will allow the user to proceed with booking tickets for the current selected show. |
| 2 | This will display the selected show date and allow the user to view alternatively available dates. |
| 3 | This section is customised to show relevant, promotional or additional shows that the venue is actively promoting. |
| 4 | This section is a description of the selected show outlining show synopsis, cast and other key information. |

Requirement Analysis

This is the Requirement Analysis section which will be covering; Class diagrams; Communication diagrams and Analysis models

### Class Diagrams and Models

The below classes demonstrate the available methods to each user type, the majority will be globally inherited with a few unique to individual user types, however the majority of data is stored in individual seat objects.

#### Class Names

##### Non-Person Classes:

Show, Seating Layout, Seat, Promotion, Ticket

##### Person Classes:

Person, Venue Manager, Agent, Customer

#### Class Structures (Left-most class is parent class)

##### Non-Person Classes:

Show 🡪 Seating Layout 🡪 Seat 🡪 Promotion 🡪 Ticket

##### Person Classes:

Person 🡪 Venue Manager 🡪 Agent 🡪 Customer

#### Class Data & Methods Draft

##### Non-Person Classes:

|  |  |
| --- | --- |
| **Show** | |
| ***Data*** | ***ShowID, ShowDateTime, ShowName, ShowLengthMins, SeatLayoutLocation, ShowDiscount, ShowBasePrices, ShowSaveLocation, ShowState*** |
| ***Methods*** | **setShowName(), setShowDateTime(), setShowLength(), setShowBasePrices(), setShowDiscount(), setShowSaveLocation(), setSeatingLayoutLocation(), setShowState(), getShowName(), getShowDateTime(), getShowLength(), getShowBasePrices(), getShowDiscount(), getShowSaveLocation(), getSeatingLayoutLocation(), getShowState(), loadSeatingLayout(), loadShow(), initialise()** |

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|  |  |
| --- | --- |
| **Seating Layout** | |
| ***Data*** | ***MaxSeatsPerCustomer, SeatLayoutImageLocation, SeatLayoutImageSizePx, SeatImagePositionsPx, SeatDataLocation*** |
| ***Methods*** | ***setMaxSeatsPerCustomer*()*, setSeatLayoutImageLocation*()*, getImageSize*()*, setSeatLayoutImageSizePx*()*, setSeatImagePositionsPx*()*, setSeatDataSetLocation*()*, getMaxSeatsPerCustomer(), getSeatLayoutImageLocation(), getImageSize(), getSeatLayoutImageSizePx(), getSeatImagePositionsPx(), getSeatDatagetLocation(), loadSeatDataSet*()*, saveSeatingLayout*()*, loadExistingLayout*()*,* initialise()** |

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|  |  |
| --- | --- |
| **Seat** | |
| ***Data*** | ***SeatPrice, SeatTimer, SeatImagePositionID, SeatPromotionSaveLocation, SeatStatus, ControllingAgent*** |
| ***Methods*** | **setSeatPrice(), setSeatTimer(), setSeatImagePositionID(), setSeatPromotionSaveLocation(), loadPromotion(), setSeatControllingAgent(), setSeatStatus(), getSeatPrice(), getSeatTimer(), getSeatImagePositionID(), getSeatPromotionSaveLocation(), getSeatControllingAgent(), getSeatStatus(), playTimerAlarm(), saveSeat(), loadExistingSeat(), initialise()** |

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|  |  |
| --- | --- |
| **Promotion** | |
| ***Data*** | ***promotionName, promotionType, promoPriceReductionPercentages, fixedPromotionalTicketPrices*** |
| ***Methods*** | **setPromoName(), setPromoType(), setPriceReductionPercentages(), setPromoPriceReductionPercentages(), getPromoName(), getPromoType(), getPriceReductionPercentages(), getPromoPriceReductionPercentages(), savePromotion(), loadExistingPromotion(), initialise()** |

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|  |  |
| --- | --- |
| **Ticket** | |
| ***Data*** | ***TicketID, TicketOwner, TicketText, TicketState*** |
| ***Methods*** | ***setTicketOwner*()*, setTicketText*()*, setTicketState*()*, getTicketOwner(), getTicketText(), getTicketState(), saveTicketImage*()*, createTicketImage*()*, initialise*()** |

##### Person Classes:

Person, Venue Manager, Agent, Customer

|  |  |
| --- | --- |
| **Person** | |
| Data | Title, FirstName, MiddleName, LastName, DOB, Gender, PhoneNumber, EmailAddress, AddressL1, AddressL2, AddressTown, AddressPostCode, AddressCounty, AddressCountry, Password, UserLevel |
| Methods | setTitle(), setFirstName(), setMiddleName(), setLastName(), setDOB(), setGender(), setPhoneNumber(), setEmailAddress(), setAddressL1(), setAddressL2(), setAddressTown(), setAddressPostCode(), setAddressCounty(), setAddressCountry(), setPassword(), SetUserLevel(), getTitle(), getFirstName(), getMiddleName(), getLastName(), getDOB(), getGender(), getPhoneNumber(), getEmailAddress(), getAddressL1(), getAddressL2(), getAddressTown(), getAddressPostCode(), getAddressCounty(), getAddressCountry(), getPassword(), getUserLevel() |

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|  |  |
| --- | --- |
| Venue Manager | |
| Data | LoginHistory |
| Methods | setLoginHistory(), getLoginHistory(), |

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|  |  |
| --- | --- |
| Agent | |
| Data | BookingHistory, ActiveAssignedSeats |
| Methods | setBookingHistory(), getBookingHistory(), setActiveAssignedSeats, getActiveAssignedSeats() |

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|  |  |
| --- | --- |
| Customer | |
| Data | CardNo, CVC2, ExpiryDate, CardName, CardBillingAddress, DefaultPaymentMethod |
| Methods | setCardNo(), setCVC2(), setExpiryDate(), setCardName(), setCardBillingAddress(), setDefaultPaymentMethod(), getCardNo(), getCVC2(), getExpiryDate(), getCardName(), getCardBillingAddress(), getDefaultPaymentMethod() |