Bucks Centre for the Performing Arts (BCPA): Online Ticketing System (OTS)

# Classes and Data/Functions Mock-up

These have been generated using the “Case Study Notes” section, and this is just a mock-up prior to any diagram creation. For final classes, hierarchies, methods, data, functions, and concepts, please consult the final UML diagram.

## 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:

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| **Show** | |
| ***Data*** | ***ShowID, ShowDateTime, ShowName, ShowLengthMins, SeatLayoutLocation, ShowDiscount, ShowBasePrices, ShowSaveLocation, ShowState*** |
| ***Methods*** | **setShowName, setShowDateTime, setShowLength, setShowBasePrices, setShowDiscount, setShowSaveLocation, setSeatingLayoutLocation, setShowState, loadSeatingLayout, loadShow, initialise** |

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| **Seating Layout** | |
| ***Data*** | ***MaxSeatsPerCustomer, SeatLayoutImageLocation, SeatLayoutImageSizePx, SeatImagePositionsPx, SeatDataLocation*** |
| ***Methods*** | ***setMaxSeatsPerCustomer, setSeatLayoutImageLocation, getImageSize, setSeatLayoutImageSizePx, setSeatImagePositionsPx, setSeatDataSetLocation, loadSeatDataSet, saveSeatingLayout, loadExistingLayout,* initialise** |

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| **Seat** | |
| ***Data*** | ***SeatPrice, SeatTimer, SeatImagePositionID, SeatPromotionSaveLocation, SeatStatus, ControllingAgent*** |
| ***Methods*** | **setSeatPrice, setSeatTimer, setSeatImagePositionID, setSeatPromotionSaveLocation, loadPromotion, setSeatControllingAgent, setSeatStatus, playTimerAlarm, saveSeat, loadExistingSeat, initialise** |

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| **Promotion** | |
| ***Data*** | ***promotionName, promotionType, promoPriceReductionPercentages, fixedPromotionalTicketPrices*** |
| ***Methods*** | **setPromoName, setPromoType, setPriceReductionPercentages, setPromoPriceReductionPercentages, savePromotion, loadExistingPromotion, initialise** |

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| **Ticket** | |
| ***Data*** | ***TicketID, TicketOwner, TicketText, TicketState*** |
| ***Methods*** | ***setTicketOwner, setTicketText, setTicketState, saveTicketImage, createTicketImage, initialise*** |

### Person Classes:

Person, Venue Manager, Agent, Customer