# Model Development Phase Template

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| Date | 10 July 2024 |
| Team ID | SWTID1720426301 |
| Project Title | **Cognitive Care: Early Intervention For Alzheimer's Disease** |
| Maximum Marks | 5 Marks |

**Model Selection Report**

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

**Model Selection Report:**

| Model | Description |
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| Xception | The Xception (Extreme Inception) model is a deep convolutional neural network architecture that builds upon the Inception model, replacing the standard Inception modules with depthwise separable convolutions. This approach significantly reduces the number of parameters and computations while maintaining high accuracy. |
| VGG19 | VGG19 is a deep convolutional neural network architecture, consisting of 19 layers, introduced by the Visual Geometry Group at the University of Oxford. Known for its simplicity and depth, VGG19 uses small 3x3 convolution filters throughout the network, enhancing its ability to learn complex features. |

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| Inception V3 | Inception V3 is a deep convolutional neural network architecture, part of the Inception family, introduced by Google. It incorporates advanced techniques like factorized convolutions, aggressive regularization, and label smoothing to enhance model performance and reduce computational cost. |