*PhysicalActivity* = β0+β1\**age* + β2\**education* + β3\**Gender* + β4\**Attitude* + β5\**PokemonGo\_AppUsage* + β6\**PokemonGo\_Relate.Behaviour* + α1\**Attitude*^2 + α2\**PokemonGo\_Relate.Behaviour*^2 + α3\**age*\**education* + α4\**education*\**Attitude* + ϵ

* β0 is the intercept of the model
* β1 represents the estimate of variable *age*
* β2 represents the estimate of variable *education*, representing different education level by discrete number
* β3 represents the estimate of female and male participants
* β4 represents the estimate of variable *Attitude*
* β5 represents the estimates of variable *PokemonGo\_AppUsage*
* β6 represents the estimates of variable *PokemonGo\_Relate.Behaviour*
* α1 represents the estimates of interaction term of the *Attitude* itself
* α2 represents the estimates of interaction term of the variable *PokemonGo\_Relate.Behaviour* itself
* α3 represents the estimates of interaction term of variables *age* and *education*

(representing different education level by discrete number)

α4 represents the estimates of interaction term of variables *education* (representing different education level by discrete number) and *Attitude*

* ϵ represented the error terms of the model, with an assumption of normal distribution

*PhysicalActivity* = β0+β1\**age* + β2\**education* + β3\**Gender* + β4\**Attitude* + β5\**PokemonGo\_AppUsage* + α1\**Attitude*^2 + α2\**age*\**education* + α3\**education*\**Attitude* + ϵ

* β0 is the intercept of the model
* β1 represents the estimate of variable *age*
* β2 represents the estimate of variable *education*, representing different education level by discrete number
* β3 represents the estimate of female and male participants
* β4 represents the estimate of variable *Attitude*
* β5 represents the estimates of variable *PokemonGo\_AppUsage*
* α1 represents the estimates of interaction term of the *Attitude* itself
* α2 represents the estimates of interaction term of variables *age* and *education* (representing different education level by discrete number)
* α3 represents the estimates of interaction term of variables *education* (representing different education level by discrete number) and *Attitude*
* ϵ represented the error terms of the model, with an assumption of normal distribution

*PhysicalActivity* = β0+β1\**age* + β2\**education* + β3\**Gender* + β4\**Attitude* + β5\**PokemonGo\_AppUsage* + β6\**PokemonGo\_Relate.Behaviour* + β7\**social\_sharing* + α1\**age*^2 + α2\**education*^2 +α3\**Attitude*^2 + α4\* *PokemonGo\_AppUsage*^2 +α5\**social\_sharing*^2 + α6\**PokemonGo\_Relate.Behaviour*^2 + γ1\**age*\**education* + γ2\**age*\**Gender* + γ3\**age*\**Attitude*+ γ4\**age*\**PokemonGo\_AppUsage* + γ5\**age*\**social\_sharing*+ γ6\**age*\**PokemonGo\_Relate.Behaviour* + γ7\**education*\*Gender+ γ8\**education*\**Attitude* + γ9\**education*\**PokemonGo\_AppUsage*+ γ10\**education*\**social\_sharing*+ γ11\**education*\**PokemonGo\_Relate.Behaviour* + γ12\**Gender*\**Attitude*+ γ13\**Gender*\**PokemonGo\_AppUsage*+ γ14\**Gender*\**social\_sharing*+ γ15\**Gender*\**PokemonGo\_Relate.Behaviour* + γ16\**Attitude*\**PokemonGo\_AppUsage*+ γ17\**Attitude*\**social\_sharing*+ γ18\**Attitude*\**PokemonGo\_Relate.Behaviour* + γ19\**PokemonGo\_AppUsage*\**social\_sharing* + γ20\**PokemonGo\_AppUsage*\**PokemonGo\_Relate.Behaviour*+ γ21\**social\_sharing*\**PokemonGo\_Relate.Behaviour* + ϵ

* β0 is the intercept of the model
* β1 represents the estimate of variable *age*
* β2 represents the estimate of variable *education*, representing different education level by discrete number
* β3 represents the estimate of female and male participants
* β4 represents the estimate of variable *Attitude*
* β5 represents the estimates of variable *PokemonGo\_AppUsage*
* β6 represents the estimates of variable *PokemonGo\_Relate.Behaviour*
* β7 represents the estimates of variable *social\_sharing*
* α1 represents the estimates of interaction term of the *age* itself
* α2 represents the estimates of interaction term of the *education* (representing different education level by discrete number) itself
* α3 represents the estimates of interaction term of the *Attitude* itself
* α4 represents the estimates of interaction term of the *PokemonGo\_AppUsage* itself
* α5 represents the estimates of interaction term of the variable *social\_sharing* itself
* α6 represents the estimates of interaction term of the variable *PokemonGo\_Relate.Behaviour* itself
* γ1 represents the estimates of interaction term of variables *age* and *education* (representing different education level by discrete number)
* γ2 represents the estimates of interaction term of variables *age* and *Gender* (representing female and male participants)
* γ3 represents the estimates of interaction term of variables *age* and *Attitude*
* γ4 represents the estimates of interaction term of variables *age* and *PokemonGo\_AppUsage*
* γ5 represents the estimates of interaction term of variables *age* and *social\_sharing*
* γ6 represents the estimates of interaction term of variables *age* and *PokemonGo\_Relate.Behaviour*
* γ7 represents the estimates of interaction term of variables *education* (representing different education level by discrete number)and *Gender* (representing female and male participants)
* γ8 represents the estimates of interaction term of variables *education* (representing different education level by discrete number)and *Attitude*
* γ9 represents the estimates of interaction term of variables *education* (representing different education level by discrete number)and *PokemonGo\_AppUsage*
* γ10 represents the estimates of interaction term of variables *education* (representing different education level by discrete number)and *social\_sharing*
* γ11 represents the estimates of interaction term of variables *education* (representing different education level by discrete number)and *PokemonGo\_Relate.Behaviour*
* γ12 represents the estimates of interaction term of variables *Gender* (representing female and male participants) and *Attitude*
* γ13 represents the estimates of interaction term of variables *Gender* (representing female and male participants) and *PokemonGo\_AppUsage*
* γ14 represents the estimates of interaction term of variables *Gender* (representing female and male participants) and *social\_sharing*
* γ15 represents the estimates of interaction term of variables *Gender* (representing female and male participants) and *PokemonGo\_Relate.Behaviour*
* γ16 represents the estimates of interaction term of variables *Attitude* and *PokemonGo\_AppUsage*
* γ17 represents the estimates of interaction term of variables *Attitude* and *education*
* γ18 represents the estimates of interaction term of variables *Attitude* and *PokemonGo\_Relate.Behaviour*
* γ19 represents the estimates of interaction term of variables *PokemonGo\_AppUsage* and *social\_sharing*
* γ20 represents the estimates of interaction term of variables *PokemonGo\_AppUsage* and *PokemonGo\_Relate.Behaviour*
* γ21 represents the estimates of interaction term of variables *social\_sharing* and *PokemonGo\_Relate.Behaviour*
* ϵ represented the error terms of the model, with an assumption of normal distribution