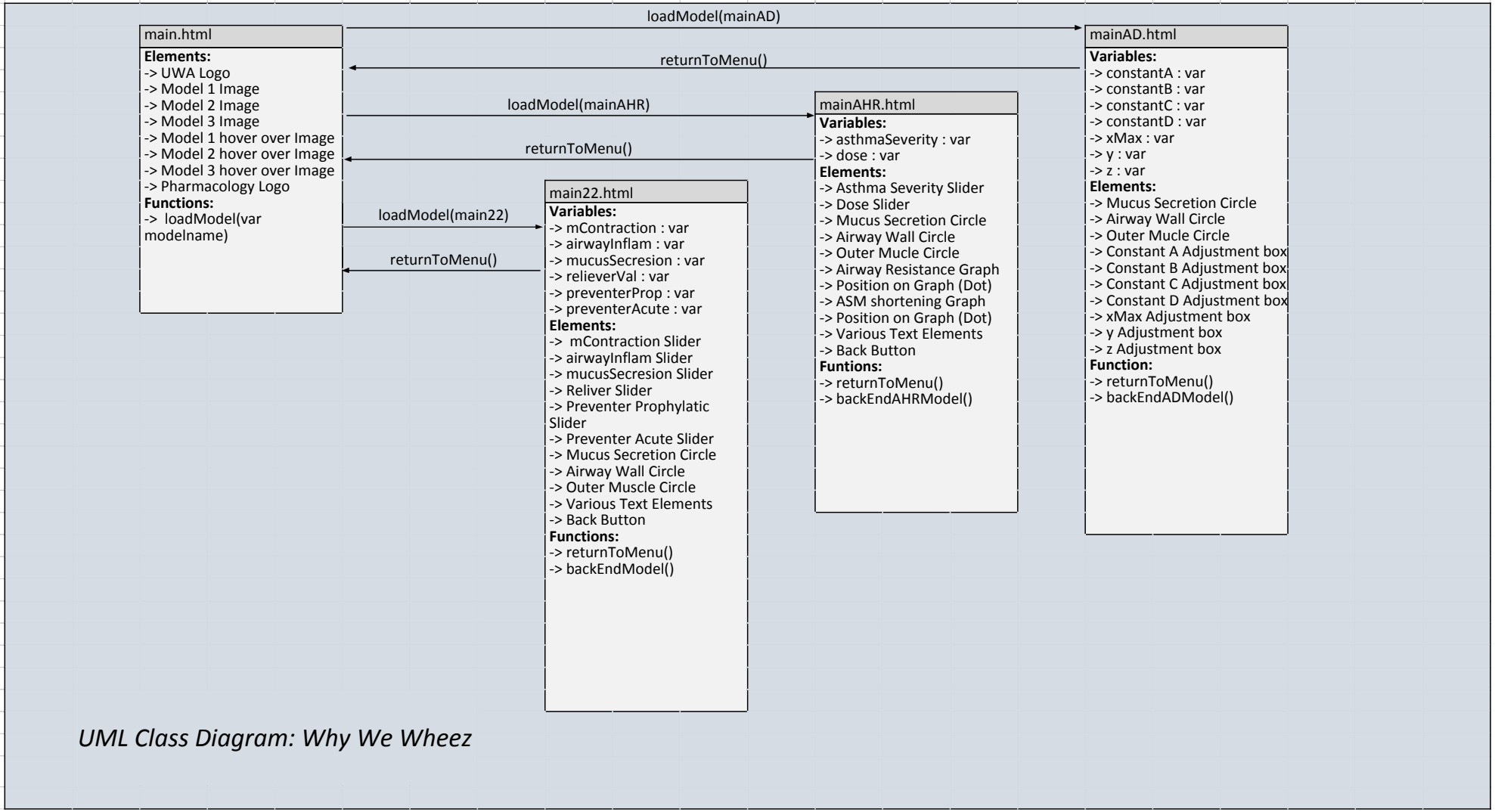
Data Dictionary

Page	Page Description	Element	Data Type	Length/Limits/Placement	Remarks
main.html	This is the main page where the user will be able to navigate to the various different models	UWA Logo	Image	Placement: Center,Top	
		Model 1 (Orginal Project)	Image	Placement: Left Alignment below UWA logo	
		Model 1 Hover over	Image	Placement: Left Alignment below UWA logo	
		Model 2 (AHR)	Image	Placement: Center Alignment below UWA logo	
		Model 2 Hover over	Image	Placement: Center Alignment below UWA logo	
		Model 3 (AD)	Image	Placement: Right Alignment below UWA logo	
		Model 3 Hover over	Image	Placement: Right Alignment below UWA logo	
		Pharamacology Logo	Image	Placement: Center, Bottom	
		Model 1 Name	String	Placement: Left Alignment below model 1 Image	
		Model 2 Name	String	Placement: Center Alignment below model 2 Image	
		Model 3 Name	String	Placement: Right Alignment below model 3 Image	
main22.html	This page contains the modeling of the cross section of the Airway Wall when adjusting paramters such as Muscle contraction, Airway wall Infammation and Mucus Secretion. The user can also apply vairous relief methods and see how it affects the resistivity in the Airway	Cross Section of Airway Wall	String	Placement: Top, Left Alignment	
		The radius of the airway lumen is determined by the level …	String	Placement: Top, Right Aligment	
		Mucus Secretion Ciricle	Image	Placement: Left Alignement below Top left String	Size: Determined by formula
		Airway Wall Circle	Image	Placement: Left Alignement below Top left String	Size: Determined by formula
		Outer Muscle Circle	Image	Placement: Left Alignement below Top left String	Size: Determined by formula
		Scale Cross Section	Image	Placement: Center besides the Visual represenation Limits: values from 0 - 10 should be indicated on scale Text High and low should also be place on the scale	
		Muscle Contraction	Slider	Placement: Next to the Scale Cross Section Limits: 0 - 10 output	
		Airway Wall Inflammation	Slider	Placement: Next to the Muscle Contraction Slider Limits: 0 - 10 output	
		Mucus Secretion	Slider	Placement: Next to the Airway Wall Inflammation Slider Limits: 0 - 10 output	
		Airway Resistance	Graph	Placement: left Alignment below Visual Representation Limits: Y axis set between 0 - 10	The position of the dot on the curive is determined by the position of the sliders through the mathmatical formula
		Scale Relivers	Image	Placement: Center Alignment next to the graph Limits: values from 0 - 10 should be indicated on the scale Text high and low should also be place on the scale	
		Reliever	Slider	Placement: Next to the Scale Relievers Limits: 0 - 10 output	
		Preventer (Prophylactic)	Slider	Placement: Next to the reliver slider Limits: 0 - 10 output	
		Preventer (Acute)	Slider	Placement: Next to the Preventer(Prophylatic) slider Limits: 0 - 10 output	
		Pharamacology Logo	Image	Placement: Center, Bottom	
mainAHR.html	This page contain an interactive model of AHR and allowing for adjusting paramaters such as severity of asthma and dose of methacholine	Asthma severity	Sldier	Placement: left alignment below the text in the top left Limits: values from 0 - 10 should be indicated on scale Text High/low aswell as no asthma/severe asthma should also be place on the scale	
		Select the serverity of asthma	String	Placement: Top, Left Alignment	
		Adjust the dose of methacholine	String	Placement: Below asthma severity slider, Left Alignment	
		Methacholine dose	Slider	Placement: left alignment below the text in the top left Limits: values from 0.001 - 1000 should be indicated on scale Text High and low should also be marked on the slider	
		Airway Resistance	Graph	Placement: Top, Right Aligment Limits: Y axis between 0 - 10, x axis between 0.001 - 1000 Graph Title: Airway Resistance , X axis title: dosage	

		ASM shortening(%)	Graph	Placement: Below Airway Resistance Grah, Right Aligment Limits: Y axis between 0 - 20, x axis between 0.001 - 1000 Graph Title: ASM shortening (%) , X axis title: dosage	
		Cross Section of Airway Wall	String	Placement: Left Alignment, Below Methacholine dose slider	
		Mucus Secretion Ciricle	Image	Placement: Bottom, Next to Cross Section of Airway String	Size: Determined by formula
		Airway Wall Circle	Image	Placement: Bottom, Next to Cross Section of Airway String	Size: Determined by formula
		Outer Muscle Circle	Image	Placement: Bottom, Next to Cross Section of Airway String	Size: Determined by formula
mainAD.html	This page contains a model that allows user to adjust the various constants within the mathematical formula that determines which stage of the airway you are analysing	Mucus Secretion Ciricle	Image	Placement: Top, Left Alignment	Size: Determined by formula
		Airway Wall Circle	Image	Placement: Top, Left Alignment	Size: Determined by formula
		Airway Wall Circle	Image	Placement: Top, Left Alignment	Size: Determined by formula
		Constant A: Field and +/- button	Field with buttons	Placement: Left Alignement below Constant A text	Default value: 2.75
		Airway outer radius (mm) (A)	Text	Placement: Left Alignement below Visual representation	
		ASM Area Text (pimm^2) (B)	Text	Placement: Next to Constant A text (right of it)	
		Constant B: Field and +/- button	Field with buttons	Placement: Belown Constant B text	Default value: 1.5
		Submucosa area (pimm^2) (C)	Text	Placement: Next to Constant B text (right of it)	
		Constant C: Field and +/- button	Field with buttons	Placement: Below Constant C text	Default value: 2.5
		Muscis Area (pimm^2) (D)	Text	Placement: Next to Constant C text	
		Constant D: Field and +/- button	Field with buttons	Placement: Below Constant D text	Default value: 0.32
		% max. ASM shortening (Xmax)	Text	Placement: Below Costant A buttons and field	
		Xmax: Field and +/- button	Field with buttons	Placement: Below Xmax Text	Default value: 20
		Fractional increase in submucosa area (y)	Text	Placement: Next to Xmax Text	
		y: Field and +/- button	Field with buttons	Placement: Below the y Text	Default value: 0
		Fractional increase in mucusoa area (z)	Text	Placement: Next to y Text	
		z: Field and +/- button	Field with buttons	Placement: Below the z Text	Defualt value: 0
		Airway Resistance VS Methacholine	Graph	Placement: Bottom, Right Alignement Limits: X axis between 0.001 - 1000, Y axis between 0 - 10 Y Axis Title: Airway Resistance, X Axis Title: Dose	



UML Class Diagram: Why We Wheez