

Pammi Yeung and Shifang Wang
Train Status Project CRC cards

Main class	
Responsibilities	Collaborators
<ul style="list-style-type: none">1) Creates a graphical user interface with text fields and buttons2) When the start button is pressed, values (start station, destination station, etc.) from the text fields are used to create a Request object. This Request object will be added to a hashtable as value, and its key will be the phone number from the GUI's textfield3) When the stop button is pressed, the phone number key from the text field will be removed from the hashtable	MBTAService GetData TextSender

Request class	
Responsibilities	Collaborators
A data structure class with only get methods that return its instance variable values. Its instance variables are: (String) departure station (String) destination station (String) departure time (String) text time	

GetData interface

<p>Responsibilities</p> <p>It specifies the method that connects to MBTA's API to fetch data and formats the data into a MBTAReply object and returns it.</p>	<p>Collaborators</p> <p>Request MBTAReply</p>
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GetDataImpl class	
<p>Responsibilities</p> <p>It implements the method that connects to MBTA's API to fetch data and formats the data into a MBTAReply object and returns it.</p>	<p>Collaborators</p> <p>Request MBTAReply</p>

MBTAReply class	
<p>Responsibilities</p> <p>A data structure class with only get methods that return its instance variable values. Its instance variables are: (String) line (String) departure station (String) destination station (Time) predicted time (that is closest to the Request object's departure time) for the train to arrive/and leave from the start station</p>	<p>Collaborators</p>

TextSender interface

Responsibilities	Collaborators
Specifies the method that takes a phone number and a MBTAReply object. Calls Twilio API to send text message.	MBTAReply

TextSenderImpl class	
Responsibilities	Collaborators
Implements the method that takes a phone number and a MBTAReply object. Calls Twilio API to send text message.	MBTAReply

MBTAService class	
Responsibilities	Collaborators
<p>Contains main method</p> <p>Instance variables are:</p> <ul style="list-style-type: none"> • A Hashtable where phone numbers are key, Request objects are values • A GetDataImpl class • A TextSenderImpl class <p>It enters into a “while(true)” loop that runs until the program is exited.</p> <p>Inside the loop, it converts the Hashtable’s every key (Request) into a MBTAReply and send a text message if necessary.</p>	<p>GetData</p> <p>TextSender</p> <p>Request</p> <p>MBTAReply</p>