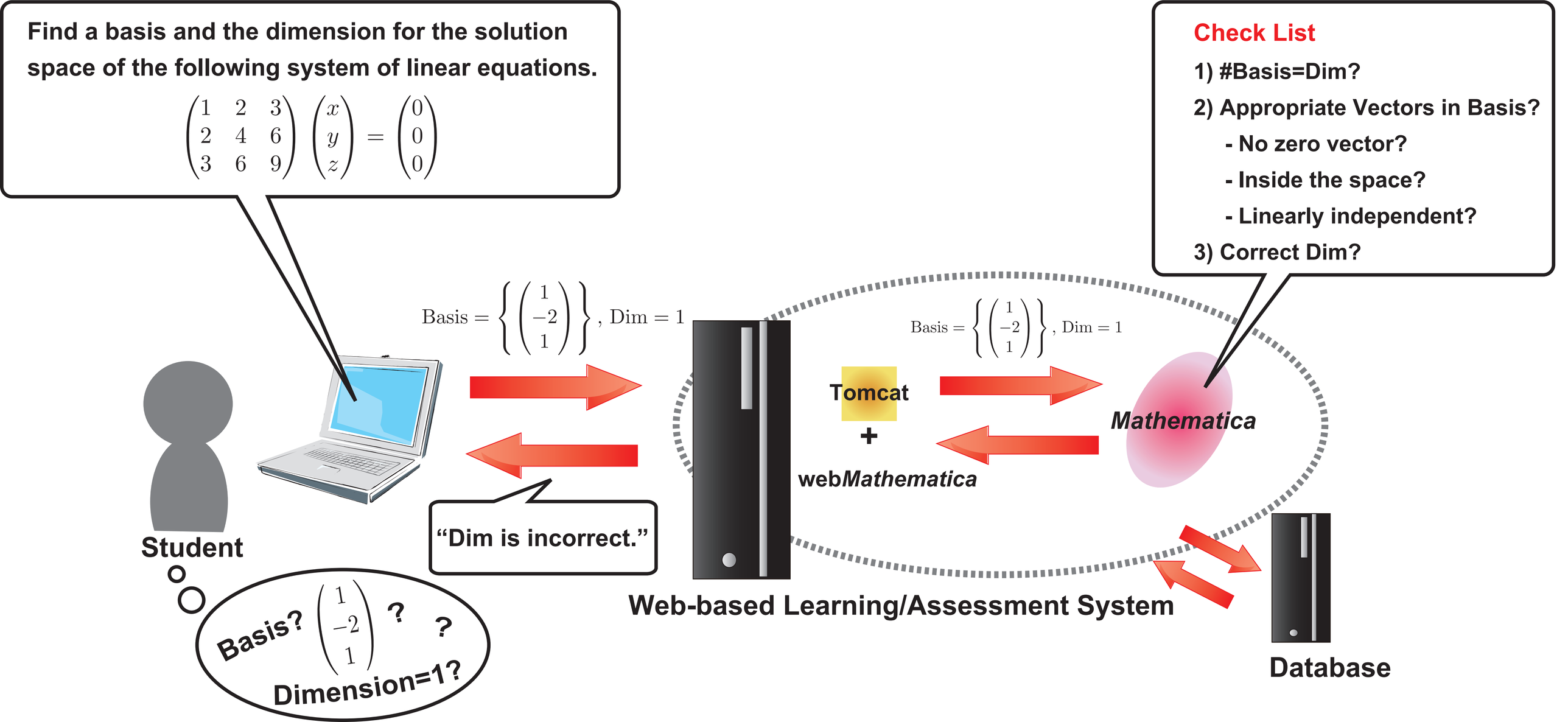
Find a basis and the dimension for the solution space of the following system of linear equations.
$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$
Check List
1) #Basis=Dim?
2) Appropriate Vectors in Basis?
- No zero vector?
- Inside the space?
- Linearly independent?
3) Correct Dim?
$\text{Basis} = \left\{ \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix} \right\}, \text{Dim} = 1$
$\text{Basis} = \left\{ \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix} \right\}, \text{Dim} = 1$
Tomcat
+
webMathematica
Mathematica
"Dim is incorrect."
Student
Basis? $\begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix}$? ?
Dimension=1?
Web-based Learning/Assessment System
Database